Yahoo Group Archive: mkars80

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2007-06-11 through 2017-03-09

Source WARC: mkars80.PsTsBJO.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-03-30T05-40-16Z-eb5307

Messages included in this PDF: 3138

Message records with no body available in the source archive: 2

Messages omitted as spam from this PDF: 2

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. Welcome

Yahoo group: mkars80
Date: 2007-06-11 21:27:39 UTC
From: Steve Drury
Topic: 1 Message: 1

All group members local and distant.....

I would like to welcome all to this group which has been set up to assist those having problems with construction, show prospective builders what the MKARS80 is and give users ideas for enhancements or modifications.

Already I'm aware of several enhancements:
Slow motion drive
SWR meter
ATU

One significant enhancement I have planned but not yet fully designed is a DDS oscillator with an on-board CW generator, the MKARS has several keen CW enthusiasts! It is planned that the board will plug into the micro socket with a few flying leads to attach for connectivity... more later once it is proven.

Anyway, please let me have any photos or links you think appropriate (your own rig or enhancements); these can be uploaded for approval via the file or photo areas. In the next few days I will upload pictures of my prototypes and all the documentation.

Please visit the MKARS club website at www.mkars.org.uk

Steve G6ALU

[Non-text portions of this message have been removed]

2. Hello

Yahoo group: mkars80
Date: 2007-06-12 13:20:38 UTC
From: John
Topic: 2 Message: 2

Hello,

Just to introduce myself, my name is John call sign M0TIF. I have already built the MKARS80 and to date had 107 nice QSO's on it best DX so far is CT1 (Portugal) using a W3DZZ trap dipole.

See photo section for a few pictures of my MKARS80 and a small ATU I made to compliment it. Currently working on an LED SWR meter to fit inside the ATU so as to have as few boxes as possible when /P operation.

73 de John (M0TIF)
GQRP 9665
FISTS 7130

3. hello john motif

Yahoo group: mkars80
Date: 2007-06-12 18:14:59 UTC
From: ter753
Topic: 3 Message: 3

Well done!. I hope I get as many contacts when I get my rig. best 73s,
terry lynch EI3IZ.

4. Batteries

Yahoo group: mkars80
Date: 2007-06-15 11:15:29 UTC
From: anil_k_raj
Topic: 4 Message: 4

Question for Steve:

Is the MKARS enclosure in the pictures large enough to house a set of
8-10 AA batteries as well?

73s
Anil
SM0MFC

5. Re: [mkars80] Batteries

Yahoo group: mkars80
Date: 2007-06-15 13:42:42 UTC
From: Steve Drury
Topic: 4 Message: 5

Anil,

Yes but not in a holder, also you won't be able to fit a speaker in. The radio has been designed with ALL connections along the back edge so it is easy to fit in alternative cases.

Steve G6ALU

Parts have now been received for the second batch of PCBs, all we need to do now is kit them!

----- Original Message -----
From: anil_k_raj
To: mkars80@...
Sent: Friday, June 15, 2007 12:15 PM
Subject: [mkars80] Batteries

Question for Steve:

Is the MKARS enclosure in the pictures large enough to house a set of
8-10 AA batteries as well?

73s
Anil
SM0MFC

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.472 / Virus Database: 269.8.17/850 - Release Date: 15/06/2007 11:31

[Non-text portions of this message have been removed]

6. Re: Batteries

Yahoo group: mkars80
Date: 2007-06-15 16:32:03 UTC
From: Steve drury
Topic: 4 Message: 6

Charlie (MoAIJ) has made up a battery box for his using the same metal box as the radio.

If you have any pictures Charlie I can put them in the Photo section.

Steve

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Anil,
>
> Yes but not in a holder, also you won't be able to fit a speaker in. The radio has been designed with ALL connections along the back edge so it is easy to fit in alternative cases.
>
> Steve G6ALU
>
> Parts have now been received for the second batch of PCBs, all we need to do now is kit them!
>
> ----- Original Message -----
> From: anil_k_raj
> To: mkars80@...
> Sent: Friday, June 15, 2007 12:15 PM
> Subject: [mkars80] Batteries
>
>
> Question for Steve:
>
> Is the MKARS enclosure in the pictures large enough to house a set of
> 8-10 AA batteries as well?
>
> 73s
> Anil
> SM0MFC
>
>
>
>
>
>
> --
>
>

> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.5.472 / Virus Database: 269.8.17/850 - Release Date:
15/06/2007 11:31
>
>
> [Non-text portions of this message have been removed]
>

7. Changes to MKARS80 and new version of manual for next batch of kits

Yahoo group: mkars80
Date: 2007-06-15 16:44:31 UTC
From: Steve drury
Topic: 7 Message: 7

Prospective builders
I now have the components for the next batch of kits but have had to order substitutes for the 8pF (now 10pF) capacitors and 8.2uH (now 10uH) inductors. These changes have little effect on the operation of the radio.

A new version of the manual will be released incorporating these changes, all bag labels will indicate the correct version of the manual to use - for builders of the first batch of kits the existing manual version V1.0 will still be available.

I know having two different manuals may be confusing but this is less "messy" than sending notes in the bags indicating that some components had been substituted.

Please don't get confused between versions of manual, software and PCB - they all carry unrelated version numbers.

Builders of the current kit
Are there any improvements I can make or errors I should correct in the current manual to help future builders - I have corrected the voltage table (incorrect voltages on IC1).

Thanks,
Steve G6ALU

8. MKARS on 40?

Yahoo group: mkars80
Date: 2007-06-20 14:01:35 UTC
From: anil_k_raj
Topic: 8 Message: 8

Steve, after looking at the circuit , I see that the only frequency dependent components (apart from the VFO of course) are the low-pass filter and the pre-driver filter. I am wondering if the design can be pressed into service on 40 by changing these to 7MHz and changing the VFO values to run it at 3MHz instead? With the addition of a few components, the builder could have the flexibility to construct either a 80m or 40M version.

The front-end attenuator that you've added in the design is as relevant at 40M and should be effective against strong broadcast signals from the adjacent frequencies.

Apologies in advance if I am completely off-side.
Anil

9. Re: MKARS on 40?

Yahoo group: mkars80
Date: 2007-06-20 15:32:34 UTC
From: Steve drury
Topic: 8 Message: 9

Anil,

Thinking about it the only issue I can see is the second harmonic of
the highest VFO frequency - 6Mhz - is very close to the wanted
frequency and may not be filtered properly by the BPF.

I will need to build one to check.

Steve G6ALU

--- In mkars80@..., "anil_k_raj" <anil_k_raj@...> wrote:
>
> Steve, after looking at the circuit , I see that the only frequency
> dependent components (apart from the VFO of course) are the low-pass
> filter and the pre-driver filter. I am wondering if the design can be
> pressed into service on 40 by changing these to 7MHz and changing the
> VFO values to run it at 3MHz instead? With the addition of a few
> components, the builder could have the flexibility to construct either
> a 80m or 40M version.
>
> The front-end attenuator that you've added in the design is as
> relevant at 40M and should be effective against strong broadcast
> signals from the adjacent frequencies.
>
> Apologies in advance if I am completely off-side.
> Anil
>

10. RE: [mkars80] MKARS on 40?

Yahoo group: mkars80
Date: 2007-06-20 15:56:33 UTC
From: David White
Topic: 8 Message: 10

hello steve, the suggestion to turn it into a MKARS40 whilst tecnically feasible would i am sure be a disapointment to everyone. its ok trying to use QRP CW on 35 kc/s of 40M but trying to cram in QRP SSB would be a voice in the wilderness. other stations would simply not hear you in the high power melee that goes on in 40M. but it would be a great idea for a CW rig as there is a QRP slot there. no AGC is a definite benefit with CW. well thats my twopenny halpenny worth. i expect i will be shot down in flames though hehehehehe de G3ZPA

NNNN

>From: "anil_k_raj" <anil_k_raj@...>
>Reply-To: mkars80@...
>To: mkars80@...
>Subject: [mkars80] MKARS on 40?
>Date: Wed, 20 Jun 2007 14:01:35 -0000
>
>Steve, after looking at the circuit , I see that the only frequency
>dependent components (apart from the VFO of course) are the low-pass
>filter and the pre-driver filter. I am wondering if the design can be
>pressed into service on 40 by changing these to 7MHz and changing the
>VFO values to run it at 3MHz instead? With the addition of a few
>components, the builder could have the flexibility to construct either
>a 80m or 40M version.
>
>The front-end attenuator that you've added in the design is as
>relevant at 40M and should be effective against strong broadcast
>signals from the adjacent frequencies.
>
>Apologies in advance if I am completely off-side.
>Anil
>

____
The next generation of Hotmail is here! http://www.newhotmail.co.uk/

11. Re: MKARS on 40?

Yahoo group: mkars80
Date: 2007-06-20 23:01:48 UTC
From: Anil Raj
Topic: 8 Message: 11

Steve,

Yes, you're right of course. The vfo fundamental as well as the second harmonic would now be within the passband of a low-pass filter and perhaps close enough to desensitize. However, the diode ring is pretty robust and it would be interesting to try it out to see how it behaves!

Anil SM0D

--- In mkars80@..., "Steve drury" <g6alu@...> wrote:
>
> Anil,
>
> Thinking about it the only issue I can see is the second harmonic of
> the highest VFO frequency - 6Mhz - is very close to the wanted
> frequency and may not be filtered properly by the BPF.
>
> I will need to build one to check.
>
> Steve G6ALU
>
> --- In mkars80@..., "anil_k_raj" <anil_k_raj@> wrote:
> >
> > Steve, after looking at the circuit , I see that the only frequency
> > dependent components (apart from the VFO of course) are the low-pass
> > filter and the pre-driver filter. I am wondering if the design can be
> > pressed into service on 40 by changing these to 7MHz and changing the
> > VFO values to run it at 3MHz instead? With the addition of a few
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> > The front-end attenuator that you've added in the design is as
> > relevant at 40M and should be effective against strong broadcast
> > signals from the adjacent frequencies.
> >
> > Apologies in advance if I am completely off-side.
> > Anil
> >
>

12. Re: [mkars80] Re: MKARS on 40?

Yahoo group: mkars80
Date: 2007-06-21 08:27:34 UTC
From: g6alu@tiscali.co.uk
Topic: 8 Message: 12

Anil,

No problem with the VFO fundamental (2.7 - 3MHz) as it would be filtered by the BPF.

The idea of the MKARS80 was to offer something to club members to build and get them into the "building spirit", this seems to have worked as the little radios have spawned homebrew SWR meters etc.

As the aim of the project has been met I've moved on to other designs but anyone is welcome to develop the MKARS80 and I will be available to test a prototype to ensure it doesn't transmit any "nastys".

Steve G6ALU

----Original Message----
From: anil_k_raj@...
Date: 21/06/2007 0:01
To: <mkars80@yahoogroups.co.uk>
Subj: [mkars80] Re: MKARS on 40?

Steve,

Yes, you're right of course. The vfo fundamental as well as the second harmonic would now be within the passband of a low-pass filter and perhaps close enough to desensitize. However, the diode ring is pretty robust and it would be interesting to try it out to see how it behaves!

Anil SM0D

--- In mkars80@yahoogroups.co.uk, "Steve drury" <g6alu@...> wrote:
>
> Anil,
>
> Thinking about it the only issue I can see is the second harmonic of
> the highest VFO frequency - 6Mhz - is very close to the wanted
> frequency and may not be filtered properly by the BPF.
>
> I will need to build one to check.
>
> Steve G6ALU
>
> --- In mkars80@..., "anil_k_raj" <anil_k_raj@> wrote:
> >
> > Steve, after looking at the circuit , I see that the only frequency
> > dependent components (apart from the VFO of course) are the low-pass
> > filter and the pre-driver filter. I am wondering if the design can be
> > pressed into service on 40 by changing these to 7MHz and changing the

> > VFO values to run it at 3MHz instead? With the addition of a few
> > components, the builder could have the flexibility to construct either
> > a 80m or 40M version.
> >
> > The front-end attenuator that you've added in the design is as
> > relevant at 40M and should be effective against strong broadcast
> > signals from the adjacent frequencies.
> >
> > Apologies in advance if I am completely off-side.
> > Anil
> >
>

Tiscali Broadband only £9.99 a month for your first 3 months!
http://www.tiscali.co.uk/products/broadband/

[Non-text portions of this message have been removed]

13. Re: [mkars80] Re: MKARS on 40?

Yahoo group: mkars80
Date: 2007-06-21 16:54:01 UTC
From: David White
Topic: 8 Message: 13

oh dear steve, if u are moving on - does this mean you will be designing a top band version ? de G3ZPA

NNNN

>From: "g6alu@..." <g6alu@...>
>Reply-To: mkars80@...
>To: <mkars80@...>
>Subject: Re: [mkars80] Re: MKARS on 40?
>Date: Thu, 21 Jun 2007 09:27:34 +0100 (GMT+01:00)
>
>
>Anil,
>
>No problem with the VFO fundamental (2.7 - 3MHz) as it would be filtered by
>the BPF.
>
>The idea of the MKARS80 was to offer something to club members to build and
>get them into the "building spirit", this seems to have worked as the
>little radios have spawned homebrew SWR meters etc.
>
>As the aim of the project has been met I've moved on to other designs but
>anyone is welcome to develop the MKARS80 and I will be available to test a
>prototype to ensure it doesn't transmit any "nastys".
>
>Steve G6ALU
>
>
>----Original Message----
>From: anil_k_raj@...
>Date: 21/06/2007 0:01
>To: <mkars80@...>
>Subj: [mkars80] Re: MKARS on 40?
>
>
>
>
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>
>
>
>Steve,
>
>Yes, you're right of course. The vfo fundamental as well as the second
>harmonic would now be within the passband of a low-pass filter and
>perhaps close enough to desensitize. However, the diode ring is pretty

>robust and it would be interesting to try it out to see how it behaves!
>
>Anil SM0D
>
>--- In mkars80@..., "Steve drury" <g6alu@...> wrote:
> >
> > Anil,
> >
> > Thinking about it the only issue I can see is the second harmonic of
> > the highest VFO frequency - 6Mhz - is very close to the wanted
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> > I will need to build one to check.
> >
> > Steve G6ALU
> >
> > --- In mkars80@..., "anil_k_raj" <anil_k_raj@> wrote:
> > >
> > > Steve, after looking at the circuit , I see that the only frequency
> > > dependent components (apart from the VFO of course) are the low-pass
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> > > components, the builder could have the flexibility to construct either
> > > a 80m or 40M version.
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> > > relevant at 40M and should be effective against strong broadcast
> > > signals from the adjacent frequencies.
> > >
> > > Apologies in advance if I am completely off-side.
> > > Anil
> > >
> >
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>_____
>
>Tiscali Broadband only £9.99 a month for your first 3 months!
>http://www.tiscali.co.uk/products/broadband/
>
>[Non-text portions of this message have been removed]
>

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Tell MSN about your most memorable emails! http://www.emailbritain.co.uk/

14. Re: MKARS on 40?

Yahoo group: mkars80
Date: 2007-06-22 15:34:18 UTC
From: Steve drury
Topic: 8 Message: 14

I'm planning an all band CW / SSB portable HF transceiver, I don't know at the moment how complex to make it though.

Steve G6ALU

--- In mkars80@yahoogroups.co.uk, "David White" <davidwhite400@...> wrote:
>
> oh dear steve, if u are moving on - does this mean you will be designing a
> top band version ? de G3ZPA
>
> NNNN
>
>
>
>
> >From: "g6alu@..." <g6alu@...>
> >Reply-To: mkars80@...
> >To: <mkars80@...>
> >Subject: Re: [mkars80] Re: MKARS on 40?
> >Date: Thu, 21 Jun 2007 09:27:34 +0100 (GMT+01:00)
> >
> >
> >Anil,
> >
> >No problem with the VFO fundamental (2.7 - 3MHz) as it would be filtered by
> >the BPF.
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> >The idea of the MKARS80 was to offer something to club members to build and
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> >As the aim of the project has been met I've moved on to other designs but
> >anyone is welcome to develop the MKARS80 and I will be available to test a
> >prototype to ensure it doesn't transmit any "nastys".
> >
> >Steve G6ALU
> >
> >

> >----Original Message----
> >From: anil_k_raj@...
> >Date: 21/06/2007 0:01
> >To: <mkars80@...>
> >Subj: [mkars80] Re: MKARS on 40?
> >
> >
> >
> >
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> >
> >
> >Steve,
> >
> >Yes, you're right of course. The vfo fundamental as well as the
second
> >harmonic would now be within the passband of a low-pass filter and
> >perhaps close enough to desensitize. However, the diode ring is
pretty
> >robust and it would be interesting to try it out to see how it
behaves!
> >
> >Anil SM0D
> >
> >--- In mkars80@yahoogroups.co.uk, "Steve drury" <g6alu@> wrote:
> > >
> > > Anil,
> > >
> > > Thinking about it the only issue I can see is the second
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> > > the highest VFO frequency - 6Mhz - is very close to the wanted
> > > frequency and may not be filtered properly by the BPF.
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> > > I will need to build one to check.
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> > > Steve G6ALU
> > >
> > > --- In mkars80@yahoogroups.co.uk, "anil_k_raj" <anil_k_raj@>
wrote:
> > > >
> > > > Steve, after looking at the circuit , I see that the only
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> > > > dependent components (apart from the VFO of course) are the
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> > > > filter and the pre-driver filter. I am wondering if the
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> > > > pressed into service on 40 by changing these to 7MHz and
changing the
> > > > VFO values to run it at 3MHz instead? With the addition of a
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> > > > components, the builder could have the flexibility to
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> > > > a 80m or 40M version.
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> >_____
> >
> >Tiscali Broadband only Â£9.99 a month for your first 3 months!
> >http://www.tiscali.co.uk/products/broadband/
> >
> >[Non-text portions of this message have been removed]
> >
>
> _____
> Tell MSN about your most memorable emails!
http://www.emailbritain.co.uk/
>

15. all band rig

Yahoo group: mkars80
Date: 2007-06-22 16:02:22 UTC
From: ter753
Topic: 15 Message: 15

Steve, I look forward very much to seeing that rig, I wish you every success in designing it!. best 73s, terry lynch EI3IZ.

16. Next batch in pipeline?

Yahoo group: mkars80
Date: 2007-06-28 21:34:03 UTC
From: Anil Raj
Topic: 16 Message: 16

Steve, any news of the next batch of kits?
73s
Anil sm0d

17. Re: [mkars80] Next batch in pipeline?

Yahoo group: mkars80
Date: 2007-06-29 17:32:28 UTC
From: Steve Drury
Topic: 16 Message: 17

Hi Anil,

Yes there are kits available from round 2, costs are:

Kit to MKARS members £35
Kit to NON members £40
Undrilled case £5
Postage UK £3
Postage EU £4
Postage zones 1 and 2 (USA etc) £6

I prefer to send kits with a box as the components fit neatly inside and are protected. If you are interested in a kit please contact me re payment options, plese DO NOT send me cheques drawn on a non UK bank as I can't cash them!

Steve G6ALU

----- Original Message -----
From: Anil Raj
To: mkars80@yahoogroups.co.uk
Sent: Thursday, June 28, 2007 10:34 PM
Subject: [mkars80] Next batch in pipeline?

Steve, any news of the next batch of kits?
73s
Anil sm0d

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.476 / Virus Database: 269.9.12/878 - Release Date: 28/06/2007 17:57

[Non-text portions of this message have been removed]

18. Re: [mkars80] working MKARS80!

Yahoo group: mkars80
Date: 2007-07-01 18:06:13 UTC
From: Jacqueline Battersby
Topic: 18 Message: 18

Hi all

Just to let you know I did tests on my mkars80 today and am pleased to say it is all working and I even picked up an Irish station...I haven't transmitted yet as I haven't got a heat sink on the FET !

I've got the 'fun' bit to do now - drill the case : (

Jacqueline

[Non-text portions of this message have been removed]

19. working mkars80

Yahoo group: mkars80
Date: 2007-07-01 20:47:52 UTC
From: ter753
Topic: 19 Message: 19

Well done jacqueline!!. I should have mine sometime this week.Please let me know how you get on. Best 73s, terry EI3IZ.

20. Re: working MKARS80!

Yahoo group: mkars80
Date: 2007-07-01 22:19:53 UTC
From: John
Topic: 18 Message: 20

Nice one Jacqueline let us know when you have it TXing may be we can try a MKARS80 to MKARS80 qso?

73 / 88 de John (M0TIF)

--- In mkars80@yahoogroups.co.uk, "Jacqueline Battersby" <jacqueline.battersby@...> wrote:
>
> Hi all
>
> Just to let you know I did tests on my mkars80 today.....<

21. RE: [mkars80] Re: working MKARS80!

Yahoo group: mkars80
Date: 2007-07-01 22:34:31 UTC
From: David White
Topic: 18 Message: 21

YES JOHN m0tif I have been replying direct every time and i receive yours perfectly. but you dont seem to get me. i keep getting a POSTMASTER GENERAL message saying DELIVERY FAILED de G3ZPA

NNNN

>From: "John" <m0tif@...>
>Reply-To: mkars80@...
>To: mkars80@...
>Subject: [mkars80] Re: working MKARS80!
>Date: Sun, 01 Jul 2007 22:19:53 -0000
>
>Nice one Jacqueline let us know when you have it TXing may be we can
>try a MKARS80 to MKARS80 qso?
>
>73 / 88 de John (M0TIF)
>
>--- In mkars80@..., "Jacqueline Battersby"
><jacqueline.battersby@...> wrote:
> >
> > Hi all
> >
> > Just to let you know I did tests on my mkars80 today.....<
>

_____
Txt a lot? Get Messenger FREE on your mobile.
https://livemessenger.mobile.uk.msn.com/

22. finished building rig

Yahoo group: mkars80
Date: 2007-07-06 21:38:19 UTC
From: ter753
Topic: 22 Message: 22

Hi everyone!, just finished my MKARS 80 this evening. It worked first time.Have only tried it on receive but I am very impressed. Its very quiet and the vfo stability is the best I have ever come across in a free running vfo. The sound quality is first rate. I am very pleased and if anyone is thinking of getting one they should go for it!.This rig has to be the best bargain ever. best 73s, terry lynch EI3IZ.

23. Re: [mkars80] finished building rig

Yahoo group: mkars80
Date: 2007-07-06 22:59:22 UTC
From: Steve Drury
Topic: 22 Message: 23

Terry,

Thanks for the complimentsand I'm glad it worked first time.

You will probably find that the VFO does drift until it has "warmed up", keep an eye on the tunning bar bottom right of the display - if it gets to one of its extremes (normally the left hand side) you will find the VFO will jump in frequency as it loses lock.

Make sure you set up the PA bias as per the instructions then you will find the TX has good sound quality, speak into the microphone so the led momentarily flickers off and you will know the output is correctly modulated.

Perhaps we will hear you on 80M sometime.

Best of luck,
Steve G6ALU

----- Original Message -----
From: ter753
To: mkars80@...
Sent: Friday, July 06, 2007 10:38 PM
Subject: [mkars80] finished building rig

Hi everyone!, just finished my MKARS 80 this evening. It worked first time.Have only tried it on receive but I am very impressed. Its very quiet and the vfo stability is the best I have ever come across in a free running vfo. The sound quality is first rate. I am very pleased and if anyone is thinking of getting one they should go for it!.This rig has to be the best bargain ever. best 73s, terry lynch EI3IZ.

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.476 / Virus Database: 269.10.1/888 - Release Date: 06/07/2007 06:36

[Non-text portions of this message have been removed]

24. Re:finished building rig

Yahoo group: mkars80
Date: 2007-07-07 10:33:47 UTC
From: john housego
Topic: 22 Message: 24

Nice one Terry, yep its a great little rig,hope to hear you on yours some time.

73 de John (M0TIF)

Yahoo! Mail is the world's favourite email. Don't settle for less, sign up for your freeaccount today.

[Non-text portions of this message have been removed]

25. MKARS80

Yahoo group: mkars80
Date: 2007-07-07 19:53:42 UTC
From: ter753
Topic: 25 Message: 25

Thanks john and steve, I hope to work both of you on the band also!.
Best 73s, terry EI3IZ.

26. An ideal project

Yahoo group: mkars80
Date: 2007-07-09 11:13:40 UTC
From: chas1745
Topic: 26 Message: 26

Steve,

I've just completed the MKARS80 and was delighted that it worked on power-up! I'm now looking forward to setting it up and gaining a full understanding of how it works - no doubt I'll post some daft questions on the forum as I work my way through the circuit diagram!

As someone with no background in electronics (passed the RAE in 1976 but for various reasons didn't pursue amateur radio after 1980)I was struggling to find a radio related project to help with self-education - what is more to the point I know many newcomers to amateur radio are in the same position.

Full blown 'homebrew', 'ugly' builds, 'etch your own', 'source your own with intelligent substitution of obsolete parts' are serious obstacles to the beginner - in my recent experience something not well understood by many project owners, some of whom perhaps see these things as a right of passage. Again I know of many projects that have been abandoned, some before any actual build commenced, for one or other of the above reasons.

The benefits of a professionally produced, silk-screened pcb, a comprehensive manual (with change control)and well thought out build sequence made this kit a pleasure to build with a greatly enhanced probability of first time working.

In my opinion there is no greater pleasure than using something you made yourself, however, homebrew in amateur radio is obviously far less common nowadays - kits like the MKARS80 are exactly what is needed to reverse this trend.

With this early success I am now encouraged to move on, learn, take on more complex builds and hopefully develop the skills mentioned earlier.

I look forward to your next design.

Charles G4IEG

p.s. My old eyes are failing - one suggestion, the circuit diagram as a bi-fold, i.e. over two A4 pages, in the manual would be ideal for me?

27. Re:An ideal project

Yahoo group: mkars80
Date: 2007-07-10 09:53:41 UTC
From: john housego
Topic: 26 Message: 27

Very well deserved compliments to you Steve from Charles on the production of a great kit and I would agree fully with them all.

John (M0TIF)

Yahoo! Answers - Get better answers from someone who knows. Tryit now.

[Non-text portions of this message have been removed]

28. Slow motion drive

Yahoo group: mkars80
Date: 2007-07-26 10:06:47 UTC
From: John
Topic: 28 Message: 28

I have just fitted the slow motion drive to the main tune control on the MKARS80 originally suggested by Frank M0JSZ.

It works very well see picture in photo section. This drive is available from Mainline Electronics www.mainline-group.com part number 6020/2.

The holes for fitting the drive are very small, tapping screws would be ideal but I could not find any small enough. I did manage to get small nuts and bolts and found it reasonably easy with a long pair of tweezers to pass both nuts between the front case and pcb then pass the screw through the front into the nut.

Nice addition to an excellent project.

29. slow motion drive

Yahoo group: mkars80
Date: 2007-07-26 16:58:10 UTC
From: ter753
Topic: 29 Message: 29

I looked at the photos and didnt see it!. terry ei3iz

30. Re: [mkars80] slow motion drive

Yahoo group: mkars80
Date: 2007-07-26 19:37:03 UTC
From: g6alu@tiscali.co.uk
Topic: 29 Message: 30

Sorry Terry,

I have set the group up so I have to check photos before they are
published.

Steve G6ALU

>----Original Message----
>From: ter753@yahoo.ie
>Date: 26/07/2007 17:58
>To: <mkars80@...>
>Subj: [mkars80] slow motion drive
>
>I looked at the photos and didnt see it!. terry ei3iz
>
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31. SM DRIVE

Yahoo group: mkars80
Date: 2007-07-26 21:34:30 UTC
From: ter753
Topic: 31 Message: 31

Ok Steve, That is a sensible precaution!!. Best 73s, Terry EI3IZ.

32. rig comparison

Yahoo group: mkars80
Date: 2007-08-07 20:29:16 UTC
From: ter753
Topic: 32 Message: 32

I recently compared the receiver sound quality of the yaesu ft-707 and the mkars 80. The mkars blew the yaesu away!!.It was also more sensitive its a great rig!. terry, EI3IZ.

33. Slow motion drive

Yahoo group: mkars80
Date: 2007-08-08 19:14:05 UTC
From: Steve Drury
Topic: 28 Message: 33

I have found some small self tapping screws which fit the holes in the slow motion drive, email me if anyone would like a couple.

Steve G6ALU

[Non-text portions of this message have been removed]

34. Re: rig comparison

Yahoo group: mkars80
Date: 2007-08-08 19:58:16 UTC
From: John
Topic: 32 Message: 34

Interesting that Terry, at an outside event recently, a group of us found the MKARS80 was out performing an IC706 for contacts!

John (M0TIF)

--- In mkars80@..., "ter753" <ter753@...> wrote:
>
> I recently compared the receiver sound quality of the yaesu ft-707 and
> the mkars 80. The mkars blew the yaesu away!!.It was also more
> sensitive its a great rig!. terry, EI3IZ.
>

35. RE: [mkars80] Re: rig comparison

Yahoo group: mkars80
Date: 2007-08-08 20:25:01 UTC
From: David White
Topic: 32 Message: 35

i think steve ought to take out a patent on it before yaesu trio and
icom get there hands on it de G3ZPA

NNNN

>From: "John" <m0tif@...>
>Reply-To: mkars80@...
>To: mkars80@...
>Subject: [mkars80] Re: rig comparison
>Date: Wed, 08 Aug 2007 19:58:16 -0000
>
>Interesting that Terry, at an outside event recently, a group of us
>found the MKARS80 was out performing an IC706 for contacts!
>
>John (M0TIF)
>
>--- In mkars80@..., "ter753" <ter753@...> wrote:
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> > I recently compared the receiver sound quality of the yaesu ft-707
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> >
>
>

_____
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36. Re: [mkars80] Re: rig comparison

Yahoo group: mkars80
Date: 2007-08-08 20:33:35 UTC
From: Steve Drury
Topic: 32 Message: 36

Its definitely NOT more sensitive than a commercial radio but then it doesn't need to be on 80M, it does often sound better though probably due to the lack of AGC - when the RF gain is set for a comfortable listening volume you don't get noise between overs.

Another reason it may seem clearer is that it is unlikely to suffer from intermodulation, partly due to reasonable signal handling performance and also back again to the lack of AGC; to achieve a comfortable listening volume you reduce ALL signals at source.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: David White
To: mkars80@...
Sent: Wednesday, August 08, 2007 9:25 PM
Subject: RE: [mkars80] Re: rig comparison

i think steve ought to take out a patent on it before yaesu trio and
icom get there hands on it de G3ZPA

NNNN

>From: "John" <m0tif@...>
>Reply-To: mkars80@...
>To: mkars80@...
>Subject: [mkars80] Re: rig comparison
>Date: Wed, 08 Aug 2007 19:58:16 -0000
>
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>John (M0TIF)
>
>--- In mkars80@..., "ter753" <ter753@...> wrote:
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>

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--
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Version: 7.5.476 / Virus Database: 269.11.8/941 - Release Date: 07/08/2007 16:06

[Non-text portions of this message have been removed]

37. Re: rig comparison

Yahoo group: mkars80
Date: 2007-08-08 21:25:17 UTC
From: Frank Jackson
Topic: 32 Message: 37

You are right Steve, but maybe there is something to learn here. It is perceived by those who have used it as being very good. How about concetrating on a different type of AGC that keeps the qualities of the current design but offer something like AGC... if you catch my drift

Frank
M0JSZ

The perceived qualities --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Its definitely NOT more sensitive than a commercial radio but then it doesn't need to be on 80M, it does often sound better though probably due to the lack of AGC - when the RF gain is set for a comfortable listening volume you don't get noise between overs.
>
> Another reason it may seem clearer is that it is unlikely to suffer from intermodulation, partly due to reasonable signal handling performance and also back again to the lack of AGC; to achieve a comfortable listening volume you reduce ALL signals at source.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: David White
> To: mkars80@yahoogroups.co.uk
> Sent: Wednesday, August 08, 2007 9:25 PM
> Subject: RE: [mkars80] Re: rig comparison
>
>
> i think steve ought to take out a patent on it before yaesu trio and
> icom get there hands on it de G3ZPA
>
> NNNN
>
>
>
>
> >From: "John" <m0tif@...>
> >Reply-To: mkars80@...
> >To: mkars80@...

> >Subject: [mkars80] Re: rig comparison
> >Date: Wed, 08 Aug 2007 19:58:16 -0000
> >
> >Interesting that Terry, at an outside event recently, a group of us
> >found the MKARS80 was out performing an IC706 for contacts!
> >
> >John (M0TIF)
> >
> >--- In mkars80@..., "ter753" <ter753@> wrote:
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> Version: 7.5.476 / Virus Database: 269.11.8/941 - Release Date:
07/08/2007 16:06
>
>
>
> [Non-text portions of this message have been removed]
>

38. Re: [mkars80] Re: rig comparison

Yahoo group: mkars80
Date: 2007-08-09 10:23:30 UTC
From: David White
Topic: 32 Message: 38

thats very interesting steve, a few of the very modern rigs now do not have the facility to disable the AGC, but on the older rigs such as my ancient FR400 i can turn the AGC off, so perhaps you were right not to have agc it doesnt take much effort to turn down the gain when a powerful signal comes on the air de G3ZPA

NNNN

>From: "Steve Drury" <g6alu@...>
>Reply-To: mkars80@...
>To: <mkars80@...>
>Subject: Re: [mkars80] Re: rig comparison
>Date: Wed, 8 Aug 2007 21:33:35 +0100
>
>Its definitely NOT more sensitive than a commercial radio but then it
>doesn't need to be on 80M, it does often sound better though probably due
>to the lack of AGC - when the RF gain is set for a comfortable listening
>volume you don't get noise between overs.
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>Another reason it may seem clearer is that it is unlikely to suffer from
>intermodulation, partly due to reasonable signal handling performance and
>also back again to the lack of AGC; to achieve a comfortable listening
>volume you reduce ALL signals at source.
>
>Steve G6ALU
>
>My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: David White
> To: mkars80@...
> Sent: Wednesday, August 08, 2007 9:25 PM
> Subject: RE: [mkars80] Re: rig comparison
>
>
> i think steve ought to take out a patent on it before yaesu trio and
> icom get there hands on it de G3ZPA
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> NNNN
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>
>
> >From: "John" <m0tif@...>

> >Reply-To: mkars80@...
> >To: mkars80@...
> >Subject: [mkars80] Re: rig comparison
> >Date: Wed, 08 Aug 2007 19:58:16 -0000
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> Version: 7.5.476 / Virus Database: 269.11.8/941 - Release Date:
>07/08/2007 16:06
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>[Non-text portions of this message have been removed]
>

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39. MKARS20?

Yahoo group: mkars80
Date: 2007-08-21 10:08:36 UTC
From: Allan Copland
Topic: 39 Message: 39

Hi Folks,

I've just finished building my MKARS80 transceiver. I built it in three sessions making only one part placement mistake along the way (my fault entirely). This is the nicest kit of many I've ever worked on. The PCB is superb and the solder-mask with it's component placement markings plus the superb manual make construction really simple. After checking that the current draw and regulator voltages aere OK, I fitted the PIC and DFM.

The receiver worked perfectly first time after adjusting the operating frequency range as per the instructions. The audio quality is superb and sensitivity is excellent with the receiver pulling in plenty of stations with a meter lead as an 'antenna'!

Because it was late and I was tired, I headed for bed and left transmitter testing for another day... perhaps today!

I've built quite a few kits in my time but this one was superb. In particular, the manual is a model of clarity and my one mistake was down to doing too many hours in a single stretch.

Winding the toroids was easy with plenty of wire supplied for the job, unlike some kits that only provide 'just enough'. A hot iron is needed to tin the leads of the toroids (self-fluxing wire) and after constructing them and dressing the leads correctly, I spot-glued them in place with very small dots of 5 minute epoxy.

Having a pic based DFM, supply voltmeter and Huff&Puff really puts this simple transceiver in a different class from many other kits.

Improvements? I can only think of one..... a 20M version!

73 Al.
GM1SXX
Hi,

Some notes on my building of the MKARS80 transceiver at
http://www.observations.biz/Observations_from_Scotland/MKARS80/Observ
ations_21_08_2007.htm

Al.

40. Re: [mkars80] MKARS20?

Yahoo group: mkars80
Date: 2007-08-21 12:34:32 UTC
From: g6alu@tiscali.co.uk
Topic: 39 Message: 40

Thanks for the compliments Al, remember to let it warm up a bit before making any QSO's or you could face the embaresment of it jumping off tune as the Huff and Puff comes out of range.

One improvement I wil make when I have enough time is to change the software so when the Huff and Puff comes to the end of its range the radio just drifts NOT jumps off tune and perhaps flash the display to indicate loss of lock.

Steve G6ALU

P.S. Are you on the MKARS80 Yahoo group?

>----Original Message----
>From: acopland@reidkerr.ac.uk
>Date: 21/08/2007 11:08
>To: <mkars80@...>
>Subj: [mkars80] MKARS20?
>
>Hi Folks,
>
>I've just finished building my MKARS80 transceiver. I built it in
>three sessions making only one part placement mistake along the way
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>
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>
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>
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>
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>Al.
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41. RE: [mkars80] MKARS20?

Yahoo group: mkars80
Date: 2007-08-21 13:50:33 UTC
From: Allan Copland
Topic: 39 Message: 41

Hi Steve,

I am indeed on the MKARS80 group.

I was a bit taken aback that the radio worked correctly from a standing start. No remediation of any sort needed. I just tweaked it onto the correct frequency range and it worked. I agree that allowing a warm-up period is sensible. I'm used to VFO's anyway, but not ones with huff&puff. I particularly like the audio quality. It reminds me of my much loved FT200 and is probably down to having a relatively wide filter. I managed to copy plenty of stations at excellent strength on 80M last night with only a short bit of wire poked in the aerial socket.

Now all we need is a matching 20M variant (for £20 more?).

I previously built a couple of Tim Walford's kit radios for 80M, the Midney(RX) and Kingsdon(tx) and they simply can't compare with the MKARS80, either in terms of performance or features. They are also over twice the cost.

Adding a PIC to the MKARS80 to measure the frequency, stabilize the VFO and monitor the supply volts makes a lot of sense from where I'm at.

As an SSB trail radio, this would be difficult to beat, and especially at the price. I have an FT817ND but it's bulky, heavy, guzzles power and still only delivers 5W.

I do think there would be a sizeable market for a 20M variant of this radio at greater cost and perhaps with a change of IF frequency to keep the VFO frequency sensibly low. 16Mhz xtals are also cheap in bulk:-) OK, you'd have a heterodyne 'marker' near/on 14Mhz but the remainder of the band should be clear with a 2.0-2.3Mhz VFO.

Just a thought.

Allan Copland.

ICT Dept Extn 2379

Homepage www.observations.biz <http://www.observations.biz>

From: mkars80@... [mailto:mkars80@...] On Behalf Of g6alu@...
Sent: 21 August 2007 13:35
To: mkars80@...
Subject: Re: [mkars80] MKARS20?

Thanks for the compliments Al, remember to let it warm up a bit before
making any QSO's or you could face the embaresment of it jumping off
tune as the Huff and Puff comes out of range.

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Steve G6ALU

P.S. Are you on the MKARS80 Yahoo group?

>----Original Message----
>From: acopland@... <mailto:acopland%40reidkerr.ac.uk>
>Date: 21/08/2007 11:08
>To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk> >
>Subj: [mkars80] MKARS20?
>
>Hi Folks,
>
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>Al.
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>Yahoo! Groups Links
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<http://www.tiscali.co.uk/products/broadband/>

[Non-text portions of this message have been removed]

42. Re: [mkars80] MKARS20?

Yahoo group: mkars80
Date: 2007-08-21 17:45:46 UTC
From: Steve Drury
Topic: 39 Message: 42

Alan,
A senior moment on my part there (my P.S.)!

I'm not planning on doing a companion 20M kit as most of my energies are going to be spent on a low cost ALL band transceiver... I have used the MKARS80 portable now several times and it is indeed good fun. Quite amusing with pile ups, just wait till the pile up disappears and say "QRP", the station often comes straight back in preference to the big noises!

Steve G6ALU

----- Original Message -----
From: Allan Copland
To: mkars80@...
Sent: Tuesday, August 21, 2007 2:50 PM
Subject: RE: [mkars80] MKARS20?

Hi Steve,

I am indeed on the MKARS80 group.

I was a bit taken aback that the radio worked correctly from a standing start. No remediation of any sort needed. I just tweaked it onto the correct frequency range and it worked. I agree that allowing a warm-up period is sensible. I'm used to VFO's anyway, but not ones with huff&puff. I particularly like the audio quality. It reminds me of my much loved FT200 and is probably down to having a relatively wide filter. I managed to copy plenty of stations at excellent strength on 80M last night with only a short bit of wire poked in the aerial socket.

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Just a thought.

Allan Copland.

ICT Dept Extn 2379

Homepage www.observations.biz <http://www.observations.biz>

From: mkars80@... [mailto:mkars80@...] On Behalf Of g6alu@...
Sent: 21 August 2007 13:35
To: mkars80@...
Subject: Re: [mkars80] MKARS20?

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Steve G6ALU

P.S. Are you on the MKARS80 Yahoo group?

>----Original Message----
>From: acopland@... <mailto:acopland%40reidkerr.ac.uk>
>Date: 21/08/2007 11:08
>To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk> >
>Subj: [mkars80] MKARS20?
>
>Hi Folks,
>
>I've just finished building my MKARS80 transceiver. I built it in
>three sessions making only one part placement mistake along the way
>(my fault entirely). This is the nicest kit of many I've ever
>worked on. The PCB is superb and the solder-mask with it's component
>placement markings plus the superb manual make construction really
>simple. After checking that the current draw and regulator voltages
>aere OK, I fitted the PIC and DFM.
>
>The receiver worked perfectly first time after adjusting the
>operating frequency range as per the instructions. The audio
>quality is superb and sensitivity is excellent with the receiver
>pulling in plenty of stations with a meter lead as an 'antenna'!
>
>Because it was late and I was tired, I headed for bed and left
>transmitter testing for another day... perhaps today!
>
>I've built quite a few kits in my time but this one was superb. In
>particular, the manual is a model of clarity and my one mistake was

>down to doing too many hours in a single stretch.
>
>Winding the toroids was easy with plenty of wire supplied for the
>job, unlike some kits that only provide 'just enough'. A hot iron
>is needed to tin the leads of the toroids (self-fluxing wire) and
>after constructing them and dressing the leads correctly, I spot-
>glued them in place with very small dots of 5 minute epoxy.
>
>Having a pic based DFM, supply voltmeter and Huff&Puff really puts
>this simple transceiver in a different class from many other kits.
>
>Improvements? I can only think of one..... a 20M version!
>
>73 Al.
>GM1SXX
>Hi,
>
>
>
>Some notes on my building of the MKARS80 transceiver at
>http://www.observations.biz/Observations_from_Scotland/MKARS80/Observ
<http://www.observations.biz/Observations_from_Scotland/MKARS80/Observ>
>ations_21_08_2007.htm
>
>
>Al.
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>Yahoo! Groups Links
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Tiscali Broadband only £7.99 a month for your first 3 months!
http://www.tiscali.co.uk/products/broadband/
<http://www.tiscali.co.uk/products/broadband/>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.

Checked by AVG Free Edition.
Version: 7.5.484 / Virus Database: 269.12.1/965 - Release Date: 21/08/2007 16:02

[Non-text portions of this message have been removed]

43. MKARS80 More

Yahoo group: mkars80
Date: 2007-08-21 18:59:40 UTC
From: Allan Copland
Topic: 43 Message: 43

Hi,

Tonight I fitted the IRF510 and tested the TX strip. It works beautifully. My radio is still essentially an untidy pile of spaghetti on the bench but it works a treat. I need to get it boxed up and properly operational.

Re Steve's comments on planning a multiband radio, that's something I'd very much welcome were it to be as well presented as the MKARS80. The excellent manual made the building of this kit a real pleasure.

I've had a load of fun building the MKARS80 radio and the end result was certainly well worth the small effort involved. A very well presented kit indeed.

73 Al.
GM1SXX

44. mkars 80 -alan

Yahoo group: mkars80
Date: 2007-08-22 17:22:05 UTC
From: ter753
Topic: 44 Message: 44

Hi Alan!, glad you got your rig up and running,I had one problem with one of the mixer transformers, due to the fact that I didnt read the manual properly hi hi ! . Hope to work you sometime on 80 meters.
73s,Terry EI3IZ.

45. MKARS 80 On The Air

Yahoo group: mkars80
Date: 2007-08-26 06:41:34 UTC
From: vk2asu
Topic: 45 Message: 45

Hi all. Finished building yesterday and did final tune-up. Few minutes later had my first contact. In the next 3 hours I had 10 more. My QTH is in Sydney (VK2) and I worked VK2, VK3, VK4, VK5 and VK7 on an inverted V at 10 metres. Distances were up to 1500 km. Rig is still just the finished board on the workbench.

An absolutely brilliant little rig. Salutations to all involved.

73 de John VK2ASU

46. Kit availability

Yahoo group: mkars80
Date: 2007-09-07 15:20:18 UTC
From: Steve Drury
Topic: 46 Message: 46

I have had many enquiries with regard kit availability... I had expected to have kits available by now but unfortunately there aren't any LCD displays in the country at an acceptable price, I have ordered parts from the manufacturer so will take about 6 - 8 weeks to arrive.

Sorry for the delay but there should then be plenty of kits to satisfy demand, I will announce here when they are ready.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

[Non-text portions of this message have been removed]

47. Any problems?

Yahoo group: mkars80
Date: 2007-09-07 15:26:00 UTC
From: Steve Drury
Topic: 47 Message: 47

I have heard from many people who have successfully completed and are now using the MKARS80 but I'm sure there are a few out there who have run in to some problem or another.

If you have a problem you are welcome to ask advice here or if you would rather not go public send me a personal email. If you have started a kit but are unable to finish it for any reason then I will probably be able to find someone to finish it for you.

I'm sure collectively we can get all radios up and running!

Steve G6ALU

[Non-text portions of this message have been removed]

48. Photo

Yahoo group: mkars80
Date: 2007-09-12 12:24:55 UTC
From: vk2asu
Topic: 48 Message: 48

Hi all,

My rig is now in a box.

Posting the photo.

73'ss de John VK2ASU

49. LCD Backlight

Yahoo group: mkars80
Date: 2007-09-17 16:19:59 UTC
From: Anil Raj
Topic: 49 Message: 49

Steve,

Q: Are pins 15-16 on the LCD meant for the backlight LEDs? If so what
is a useable value for R to use if fed with 12-14 volts?

Best
Anil

50. Re: [mkars80] LCD Backlight

Yahoo group: mkars80
Date: 2007-09-17 17:41:32 UTC
From: Steve Drury
Topic: 49 Message: 50

Hi Anil,

The PCB they use for the display is the same for those with and without LEDs, I'm afraid these displays don't have any LEDs inside so can't be backlit.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Anil Raj
To: mkars80@...
Sent: Monday, September 17, 2007 5:19 PM
Subject: [mkars80] LCD Backlight

Steve,

Q: Are pins 15-16 on the LCD meant for the backlight LEDs? If so what
is a useable value for R to use if fed with 12-14 volts?

Best
Anil

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.487 / Virus Database: 269.13.22/1013 - Release Date: 17/09/2007 13:29

[Non-text portions of this message have been removed]

51. Re: LCD Backlight

Yahoo group: mkars80
Date: 2007-09-18 11:23:10 UTC
From: Anil Raj
Topic: 49 Message: 51

Steve, thanks. Once things are up and running I'll see if there is a
way to rig a couple of LEDs to illuminate the display...
73s de Anil SM0D

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Anil,
>
> The PCB they use for the display is the same for those with and
without LEDs, I'm afraid these displays don't have any LEDs inside so
can't be backlit.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: Anil Raj
> To: mkars80@yahoogroups.co.uk
> Sent: Monday, September 17, 2007 5:19 PM
> Subject: [mkars80] LCD Backlight
>
>
> Steve,
>
> Q: Are pins 15-16 on the LCD meant for the backlight LEDs? If so what
> is a useable value for R to use if fed with 12-14 volts?
>
> Best
> Anil
>
>
>
>
>
> Yahoo! Groups Links
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>
> --
> No virus found in this incoming message.
> Checked by AVG Free Edition.
> Version: 7.5.487 / Virus Database: 269.13.22/1013 - Release Date:

17/09/2007 13:29
>
>
>
> [Non-text portions of this message have been removed]
>

52. Knobs!!

Yahoo group: mkars80
Date: 2007-09-20 09:54:57 UTC
From: g1rnzges
Topic: 52 Message: 52

Hi Steve things are at last progressing nicely with my Build I am at the stage of its first power up (look out for the smoke signals!) what Knobs as everyone used? a maplin number would be useful.

73's Graham G1RNZ

53. Re: [mkars80] Knobs!!

Yahoo group: mkars80
Date: 2007-09-20 17:42:46 UTC
From: Steve Drury
Topic: 52 Message: 53

Graham,
Try Maplin part numbers:

19mm - YX01B
27mm - YX02C
45mm - YX04E

Best of luck!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: g1rnzges
To: mkars80@...
Sent: Thursday, September 20, 2007 10:54 AM
Subject: [mkars80] Knobs!!

Hi Steve things are at last progressing nicely with my Build I am at
the stage of its first power up (look out for the smoke signals!) what
Knobs as everyone used? a maplin number would be useful.

73's Graham G1RNZ

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.487 / Virus Database: 269.13.27/1020 - Release Date: 20/09/2007 12:07

[Non-text portions of this message have been removed]

54. RE: [mkars80] Knobs!!

Yahoo group: mkars80
Date: 2007-09-20 17:56:10 UTC
From: Graham (G1RNZ)
Topic: 52 Message: 54

Thanks Steve

Best 73's From Graham (G1rnz)

g1rnzges@...

_____

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 20 September 2007 18:43
To: mkars80@...
Subject: Re: [mkars80] Knobs!!

Graham,
Try Maplin part numbers:

19mm - YX01B
27mm - YX02C
45mm - YX04E

Best of luck!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: g1rnzges
To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
Sent: Thursday, September 20, 2007 10:54 AM
Subject: [mkars80] Knobs!!

Hi Steve things are at last progressing nicely with my Build I am at
the stage of its first power up (look out for the smoke signals!) what
Knobs as everyone used? a maplin number would be useful.

73's Graham G1RNZ

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.487 / Virus Database: 269.13.27/1020 - Release Date: 20/09/2007
12:07

[Non-text portions of this message have been removed]

---

avast! Antivirus <http://www.avast.com> : Inbound message clean.

Virus Database (VPS): 000775-4, 20/09/2007
Tested on: 20/09/2007 18:54:09
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---

avast! Antivirus <http://www.avast.com> : Outbound message clean.

Virus Database (VPS): 000775-4, 20/09/2007
Tested on: 20/09/2007 18:56:10
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[Non-text portions of this message have been removed]

55. Display problem

Yahoo group: mkars80
Date: 2007-10-27 15:28:44 UTC
From: g1rnzges
Topic: 55 Message: 55

Hi Steve I have at last fitted the display. however when I power up I
get all squares on the display no readable figures.
73's graham

56. Re: [mkars80] Display problem

Yahoo group: mkars80
Date: 2007-10-27 16:41:52 UTC
From: Steve Drury
Topic: 55 Message: 56

OK Graham, it sound like the micro isn't talking to the display - would you like me to have a look at it for you? Won't have time at club on Monday though but I don't mind taking it away or we can arrange for you to bring it round to my QTH.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: g1rnzges
To: mkars80@...
Sent: Saturday, October 27, 2007 4:28 PM
Subject: [mkars80] Display problem

Hi Steve I have at last fitted the display. however when I power up I
get all squares on the display no readable figures.
73's graham

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.15.12/1096 - Release Date: 27/10/2007 11:02

[Non-text portions of this message have been removed]

57. RE: [mkars80] Display problem

Yahoo group: mkars80
Date: 2007-10-27 17:52:35 UTC
From: Graham (G1RNZ)
Topic: 55 Message: 57

Hi Steve yes I would like you to look at it if you don't mind. I could bring it round, are you at the museum tomorrow?

Best 73's From Graham(G1rnz)

g1rnzges@...

From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 27 October 2007 17:42
To: mkars80@...
Subject: Re: [mkars80] Display problem

OK Graham, it sound like the micro isn't talking to the display - would you like me to have a look at it for you? Won't have time at club on Monday though but I don't mind taking it away or we can arrange for you to bring it round to my QTH.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: g1rnzges
To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
Sent: Saturday, October 27, 2007 4:28 PM
Subject: [mkars80] Display problem

Hi Steve I have at last fitted the display. however when I power up I get all squares on the display no readable figures.
73's graham

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.15.12/1096 - Release Date: 27/10/2007 11:02

[Non-text portions of this message have been removed]

---

avast! Antivirus <http://www.avast.com> : Inbound message clean.

Virus Database (VPS): 071027-0, 27/10/2007
Tested on: 27/10/2007 18:50:31
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---

avast! Antivirus <http://www.avast.com> : Outbound message clean.

Virus Database (VPS): 071027-0, 27/10/2007
Tested on: 27/10/2007 18:52:35
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[Non-text portions of this message have been removed]

58. Re: [mkars80] Display problem

Yahoo group: mkars80
Date: 2007-10-27 18:21:12 UTC
From: Steve Drury
Topic: 55 Message: 58

Yes I will be at the museum..... with a tool box!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Graham (G1RNZ)
To: mkars80@...
Sent: Saturday, October 27, 2007 6:52 PM
Subject: RE: [mkars80] Display problem

Hi Steve yes I would like you to look at it if you don't mind. I could bring
it round, are you at the museum tomorrow?

Best 73's From Graham(G1rnz)

g1rnzges@...

_____

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 27 October 2007 17:42
To: mkars80@...
Subject: Re: [mkars80] Display problem

OK Graham, it sound like the micro isn't talking to the display - would you
like me to have a look at it for you? Won't have time at club on Monday
though but I don't mind taking it away or we can arrange for you to bring it
round to my QTH.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: g1rnzges
To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
Sent: Saturday, October 27, 2007 4:28 PM
Subject: [mkars80] Display problem

Hi Steve I have at last fitted the display. however when I power up I
get all squares on the display no readable figures.
73's graham

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.15.12/1096 - Release Date: 27/10/2007
11:02

[Non-text portions of this message have been removed]

---

avast! Antivirus <http://www.avast.com> : Inbound message clean.

Virus Database (VPS): 071027-0, 27/10/2007
Tested on: 27/10/2007 18:50:31
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---

avast! Antivirus <http://www.avast.com> : Outbound message clean.

Virus Database (VPS): 071027-0, 27/10/2007
Tested on: 27/10/2007 18:52:35
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.15.12/1096 - Release Date: 27/10/2007 11:02

[Non-text portions of this message have been removed]

59. Re: [mkars80] Display problem

Yahoo group: mkars80
Date: 2007-10-29 22:39:58 UTC
From: Steve Drury
Topic: 55 Message: 59

It turns out Grahams problem was caused by a bug in the micro firmware, this problem only affected early micros and only those distributed to club members - we missed Grahams when re-programmed them all.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: g1rnzges
To: mkars80@...
Sent: Saturday, October 27, 2007 3:28 PM
Subject: [mkars80] Display problem

Hi Steve I have at last fitted the display. however when I power up I
get all squares on the display no readable figures.
73's graham

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.15.12/1096 - Release Date: 27/10/2007 11:02

[Non-text portions of this message have been removed]

60. Re: Display problem

Yahoo group: mkars80
Date: 2007-11-16 23:37:31 UTC
From: Garry
Topic: 55 Message: 60

Greetings all.

Glad to hear that Grahams problem was so easily solved.

Name here is Garry and I just sent payment off to Steve for a Mkars 80 kit. So one (at least) is headed for British Columbia Canada. I have the MMR-40 (built and running) and now this one soon I hope. (I have other kit built radios but these 2 are the only ones that do SSB so far) Once this one is done I will likely go for the Bitx20 which is being kitted as of last month.

It might be a tad distant to expect to make a contact from here to Europe and the B.I.'s on this band but you never know.

I expect it will take a good month or more to get here what with the festive season happening and bogging down the mail so hope to be working on it early in the New Year.

73 All I'm sure I'll be in touch.

Garry/Ve7ajj/Va7nv

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> It turns out Grahams problem was caused by a bug in the micro firmware, this problem only affected early micros and only those distributed to club members - we missed Grahams when re-programmed them all.

61. Re: [mkars80] Re: Display problem

Yahoo group: mkars80
Date: 2007-11-17 09:32:16 UTC
From: Steve Drury
Topic: 55 Message: 61

Hi Garry,
Perhaps a bit of explanation is required with regard Grahams display problem, it may help others avoid the same trap.

There are now many different manufacturers of LCD driver chips which are "compatible" with the original Hitachi type, the displays I use come from Powertip. Although the display PCBs are identical the manufacturer may use whatever controller IC he can source at the "right price", the last digits of the part number give the manufacturer.

I prototyped the MKARS80 with a device I had in my component draw for several years, this part functioned OK with the first released code (V1.0). When it came to supplying kits I found some old stock displays at the right price, these however had a different controller chip on board and weren't compatible with the firmware due to bug in the initialisation. Unfortunately this bug didn't cause problems with all displays so the first Beta test parts worked OK!

Luckily all the early kits were sold to MKARS club members so were easy to update - Grahams radio was missed as his radio wasn't available the evening I re-programmed all the controllers.

For those with an interest in PIC code it is easy to modify the program to show your own call at start-up, the code is on the MKARS website. I would recommend experimenting with a spare PIC16F818 though just in case!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Garry
To: mkars80@...
Sent: Friday, November 16, 2007 11:37 PM
Subject: [mkars80] Re: Display problem

Greetings all.

Glad to hear that Grahams problem was so easily solved.

Name here is Garry and I just sent payment off to Steve for a Mkars 80
kit. So one (at least) is headed for British Columbia Canada. I have
the MMR-40 (built and running) and now this one soon I hope. (I have
other kit built radios but these 2 are the only ones that do SSB so
far) Once this one is done I will likely go for the Bitx20 which is
being kitted as of last month.

It might be a tad distant to expect to make a contact from here to
Europe and the B.I.'s on this band but you never know.

I expect it will take a good month or more to get here what with the festive season happening and bogging down the mail so hope to be working on it early in the New Year.

73 All I'm sure I'll be in touch.

Garry/Ve7ajj/Va7nv

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> It turns out Grahams problem was caused by a bug in the micro firmware, this problem only affected early micros and only those distributed to club members - we missed Grahams when re-programmed them all.

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.16.0/1135 - Release Date: 16/11/2007 22:58

[Non-text portions of this message have been removed]

62. Problems... Problems...

Yahoo group: mkars80
Date: 2007-11-20 21:50:50 UTC
From: Steve Drury
Topic: 62 Message: 62

I'm sorry to say that there has been a kitting error with the latest batch of MKARS80s, it appears that the component supplier has mixed BC327 and BC547B transistors, BC327 transistors are not used in the kit! I have checked several kits and have found the issue in all, in addition I have found some kits also have MPSH10 transistors missing.

All of these components should be in Bag 4, to resolve the issue I will send a "repair" pack containing 16 x BC547 and 3 x MPSH10 transistors to all I have sent kits to so far.

Unfortunately there will be a delay of a few days in sending further kits out until all Bag 4s have been checked, I do not cash cheques until kits are sent.

My appologies for the inconvenience.

Regards,
Steve G6ALU

[Non-text portions of this message have been removed]

63. Re: [mkars80] ...kit assembly preparation question

Yahoo group: mkars80
Date: 2007-11-20 23:20:54 UTC
From: Steve Eisenberg
Topic: 62 Message: 63

To Steve and all:

This may have been covered before, but I expect to be
assembling a mkars80 kit within the next month or so.
Is there any information I should read, or equipment I
should collect, in order to make the assembly process
go more smoothly? I know there are thousands of years'
of reading online about soldering and kit-building,
but specific suggestions by those who have
built/designed/worked with this kit and others like it
would be most helpful.

Thank you very much for your referrals and assistance.

Steve
WA1ZFY
neophyte solderer/builder

Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

64. Re: [mkars80] ...kit assembly preparation question

Yahoo group: mkars80
Date: 2007-11-21 07:46:49 UTC
From: G8IFF/KC8NHF
Topic: 62 Message: 64

Don't think there's anything you need that's not in the manual. Read it in it's entirety
before playing with
the components.

Steve Eisenberg wrote:
> To Steve and all:
>
> This may have been covered before, but I expect to be
> assembling a mkars80 kit within the next month or so.
> Is there any information I should read, or equipment I
> should collect, in order to make the assembly process
> go more smoothly? I know there are thousands of years'
> of reading online about soldering and kit-building,
> but specific suggestions by those who have
> built/designed/worked with this kit and others like it
> would be most helpful.
>
> Thank you very much for your referrals and assistance.
>
> Steve
> WA1ZFY
> neophyte solderer/builder
>
>
> ____
> Never miss a thing. Make Yahoo your home page.
> http://www.yahoo.com/r/hs
>
>
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> Yahoo! Groups Links
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Nigel A. Gunn. 59 Beadlemead, Milton Keynes, MK6 4HF, England.
Tel +44 (0)1908 604004 mobile +44 (0)7951079089
e-mail nigel@... www http://www.ngunn.net
Amateur radio stations G8IFF, KC8NHF
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
Dayton ARA #2128, AMSAT-NA LM-1691, MKARS, RAYNET

<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>

65. Re: [mkars80] ...kit assembly preparation question

Yahoo group: mkars80
Date: 2007-11-21 08:29:52 UTC
From: g6alu@tiscali.co.uk
Topic: 62 Message: 65

Morning Steve,

Adding to Nigels comments:
The manual is quite comprehensive but doesn't really cover soldering technique so you may wish to brush up on that, as for special equipment you can assemble and test the radio with nothing more than a soldering iron, low cost ($10) multimeter, side cutters, long nose pliers and a screw driver. You will need solder which isn't included in the kit, for home construction I would recomend standard 60/40 multicore 22 orv 24 SWG (not sure what AWG that is).

Hope this helps.

Regards,
Steve G6ALU

>----Original Message----
>From: nigel@...
>Date: 21/11/2007 7:46
>To: <mkars80@...>
>Subj: Re: [mkars80] ...kit assembly preparation question
>
>Don't think there's anything you need that's not in the manual. Read it in it's entirety before playing with
>the components.
>
>Steve Eisenberg wrote:
>> To Steve and all:
>>
>> This may have been covered before, but I expect to be
>> assembling a mkars80 kit within the next month or so.
>> Is there any information I should read, or equipment I
>> should collect, in order to make the assembly process
>> go more smoothly? I know there are thousands of years'
>> of reading online about soldering and kit-building,
>> but specific suggestions by those who have
>> built/designed/worked with this kit and others like it
>> would be most helpful.
>>
>> Thank you very much for your referrals and assistance.
>>
>> Steve
>> WA1ZFY
>> neophyte solderer/builder
>>
>>

>>

>> Never miss a thing. Make Yahoo your home page.
>> http://www.yahoo.com/r/hs
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>> Yahoo! Groups Links
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>Nigel A. Gunn. 59 Beadlemead, Milton Keynes, MK6 4HF, England.
>Tel +44 (0)1908 604004 mobile +44 (0)7951079089
>e-mail nigel@... www http://www.ngunn.net
>Amateur radio stations G8IFF, KC8NHF
>Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig
#385,
> Dayton ARA #2128, AMSAT-NA LM-1691, MKARS, RAYNET
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>Yahoo! Groups Links
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66. Kit status 24-11-07

Yahoo group: mkars80
Date: 2007-11-24 15:44:37 UTC
From: Steve Drury
Topic: 66 Message: 66

Current kit status:

All ordered kits have been shipped, I have a small stock of kits should any one want one.

"Correction" packs have been sent to all those affected by my suppliers error (BC327 transistors mixed with BC547B). If any one wants some BC327 transistors free of charge (you pay the post) let me know, I have a few hundred!

Steve G6ALU

My web site: www.radio-kits.co.uk

[Non-text portions of this message have been removed]

67. Re: [mkars80] Kit status 24-11-07

Yahoo group: mkars80
Date: 2007-11-25 05:35:33 UTC
From: Pat Jones
Topic: 66 Message: 67

Hi Steve
Thanks for the update.
Regards Pat VE7PRJ

Steve Drury <g6alu@...> wrote: Current kit status:

All ordered kits have been shipped, I have a small stock of kits should any one want one.

"Correction" packs have been sent to all those affected by my suppliers error (BC327 transistors mixed with BC547B). If any one wants some BC327 transistors free of charge (you pay the post) let me know, I have a few hundred!

Steve G6ALU

My web site: www.radio-kits.co.uk

[Non-text portions of this message have been removed]

For ideas on reducing your carbon footprint visit Yahoo! For Good this month.

[Non-text portions of this message have been removed]

68. Unbelievable!

Yahoo group: mkars80
Date: 2007-11-27 20:24:03 UTC
From: Garry
Topic: 68 Message: 68

I got my kit in the mail today. All I can say is that I was expecting to see it in the new year what with the festive season upon us and usually screwing up the mail big time. Nice work Steve, great prompt shipping. The only thing is I may not get to it for a few weeks sadly as I have a couple of other unfinished projects I am working on and time seems to be the thing most scarce around here.

I should have retired years earlier and I might have if I could possibly have known how busy I would get. HI HI

73

Garry/Ve7ajj

69. Re: [mkars80] Unbelievable!

Yahoo group: mkars80
Date: 2007-11-30 21:19:27 UTC
From: Chris Harmer
Topic: 68 Message: 69

I second this comment, having just received my kit. The presentation and packing is superb: better than many mainstream kits that I have seen. Very well done Steve.

Chris M0HMR
----- Original Message -----
From: Garry
To: mkars80@...
Sent: Tuesday, November 27, 2007 8:24 PM
Subject: [mkars80] Unbelievable!

I got my kit in the mail today. All I can say is that I was
expecting to see it in the new year what with the festive season upon
us and usually screwing up the mail big time. Nice work Steve, great
prompt shipping. The only thing is I may not get to it for a few
weeks sadly as I have a couple of other unfinished projects I am
working on and time seems to be the thing most scarce around here.

I should have retired years earlier and I might have if I could
possibly have known how busy I would get. HI HI

73

Garry/Ve7ajj

[Non-text portions of this message have been removed]

70. mkars80 mods

Yahoo group: mkars80
Date: 2007-12-09 16:14:28 UTC
From: chris gresswell
Topic: 70 Message: 70

hi im chris g0wfh im just putting my kit togther for once in slow time
i have a second kit i wish to put on a differant band 40 or 160m i
have not made up my mind yet has any one done this yet how did
you get on and how well did it work thanks chris

[Non-text portions of this message have been removed]

71. Re: [mkars80] mkars80 mods

Yahoo group: mkars80
Date: 2007-12-09 17:48:28 UTC
From: G8IFF/KC8NHF
Topic: 70 Message: 71

Been thinking about it.
You have 3 filters to re-tune and the LC in the local osc to play with.
If you end up with the LO on the "wrong" side of the signal, you will have to pull the BFO crystal down a
couple of KHz to get the correct sideband.
You may have to play with the software to get the frequency display correct or get the stabiliser to lock.

chris gresswell wrote:
> hi im chris g0wfh im just putting my kit togther for once in slow time
> i have a second kit i wish to put on a differant band 40 or 160m i
> have not made up my mind yet has any one done this yet how did
> you get on and how well did it work thanks chris
>

72. Ve7ajj Build

Yahoo group: mkars80
Date: 2007-12-13 22:24:07 UTC
From: Garry
Topic: 72 Message: 72

Hi All.

Just completed the installation of all the parts in kit bag #2. All seems to be going well. Found it tedious at first trying to find the location of each part on the silk screen but as I become more familiar with the layout and labeling scheme it has gradually become easier and easier to find the correct location (may also be due to the fact that some of the holes are now filled leaving fewer to look through).

A well documented project I would say. The kit creators are to be commended. Very reminiscent of the old Heathkit style of building.

I have built a number of kits recently and some have had minimal documentation which is not necessarily bad just perhaps more geared for the experienced builder. If all goes as it has through to the end then this kit would definitely be classified as a great project for the first time builder.

Time for a break right now before I tackle the 3rd bag. My back gets stiffened up hunched over the circuit board. One thing I like is the component layout. Most every kit today uses hairpin style positioning of the resistors and it was nice to have them lay down on the board. That could really help if any troubleshooting is needed.

73

Garry/Ve7ajj

73. Re: [mkars80] Ve7ajj Build

Yahoo group: mkars80
Date: 2007-12-14 08:19:56 UTC
From: g6alu@tiscali.co.uk
Topic: 72 Message: 73

Garry,

Thanks for the comments - in the back of the manual you will find an enlarged printed overlay which may help you locate the components.

Keep us informed of your progress.

Steve G6ALU

>----Original Message----
>From: ve7ajj@...
>Date: 13/12/2007 22:24
>To: <mkars80@...>
>Subj: [mkars80] Ve7ajj Build
>
>Hi All.
>
>Just completed the installation of all the parts in kit bag #2. All
>seems to be going well. Found it tedious at first trying to find
the
>location of each part on the silk screen but as I become more
>familiar with the layout and labeling scheme it has gradually become
>easier and easier to find the correct location (may also be due to
>the fact that some of the holes are now filled leaving fewer to look
>through).
>
>A well documented project I would say. The kit creators are to be
>commended. Very reminiscent of the old Heathkit style of building.
>
>I have built a number of kits recently and some have had minimal
>documentation which is not necessarily bad just perhaps more geared
>for the experienced builder. If all goes as it has through to the
>end then this kit would definitely be classified as a great project
>for the first time builder.
>
>Time for a break right now before I tackle the 3rd bag. My back gets
>stiffened up hunched over the circuit board. One thing I like is
the
>component layout. Most every kit today uses hairpin style
>positioning of the resistors and it was nice to have them lay down
on
>the board. That could really help if any troubleshooting is needed.
>
>73
>
>Garry/Ve7ajj

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>Yahoo! Groups Links
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http://www.tiscali.co.uk/products/securepc

74. MKARS 80

Yahoo group: mkars80
Date: 2007-12-18 08:28:59 UTC
From: bright235spark
Topic: 74 Message: 74

Hi To the group,

This is my first post. I am a French licensed radio ham, currently building a Bitx 20A. I think your project looks really good and would like to know where I can order one.

I must have missed the price and ordering info, any help please ,

73

John Davis F5VLM G-QRP

75. Re: [mkars80] MKARS 80

Yahoo group: mkars80
Date: 2007-12-18 19:12:56 UTC
From: Steve Drury
Topic: 74 Message: 75

Hi John,

They have sold out for this year but I will do some more in January. I will send you a personal mail with prices etc.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: bright235spark
To: mkars80@...
Sent: Tuesday, December 18, 2007 8:28 AM
Subject: [mkars80] MKARS 80

Hi To the group,

This is my first post. I am a French licensed radio ham, currently
building a Bitx 20A. I think your project looks really good and would
like to know where I can order one.

I must have missed the price and ordering info, any help please ,

73

John Davis F5VLM G-QRP

Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.17.4/1188 - Release Date: 17/12/2007 14:13

[Non-text portions of this message have been removed]

76. Re: [mkars80] MKARS 80

Yahoo group: mkars80
Date: 2007-12-18 19:36:40 UTC
From: davisjo
Topic: 74 Message: 76

Hi Steve,

Great news, I look forward to receiving your information.

We have a thriving forum on the Bitx 20A forum and an American pen pal has made a series of videos documenting the testing of the Doug Hendricks board.
They may be of use to your members !

I enclose the URL http://golddredgervideo.com/kc0wox/bitx20avideos.htm

They are well worth watching,

Have a good Christmas,

73

John Davis F5VLM

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, December 18, 2007 8:12 PM
Subject: Re: [mkars80] MKARS 80

Hi John,

They have sold out for this year but I will do some more in January. I will send you a personal mail with prices etc.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: bright235spark
To: mkars80@...
Sent: Tuesday, December 18, 2007 8:28 AM
Subject: [mkars80] MKARS 80

Hi To the group,

This is my first post. I am a French licensed radio ham, currently
building a Bitx 20A. I think your project looks really good and would
like to know where I can order one.

I must have missed the price and ordering info, any help please ,

73

John Davis F5VLM G-QRP

Yahoo! Groups Links

--
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Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.17.4/1188 - Release Date: 17/12/2007 14:13

[Non-text portions of this message have been removed]

Orange vous informe que cet e-mail a été contrôlé par l'anti-virus mail.
Aucun virus connu à ce jour par nos services n'a été détecté.

[Non-text portions of this message have been removed]

77. mkars 80

Yahoo group: mkars80
Date: 2007-12-20 18:41:49 UTC
From: ter753
Topic: 77 Message: 77

I was listening to a qso on 80 meters with my mkars and out of interest compared it to an eton e5.The eton had qrm probably internal and the audio was weak and not very clear.The mkars beat it hands down!.I love this rig!.

78. RE: [mkars80] mkars 80

Yahoo group: mkars80
Date: 2007-12-20 19:15:59 UTC
From: David White
Topic: 77 Message: 78

well thats very interesting indeed, i was going to purchase an Eton E5 from Nevada, but i will not do so now. i will stick to my Trio R1000 for SWL, de G3ZPA

NNNN

To: mkars80@...: ter753@...: Thu, 20 Dec 2007 18:41:49 +0000Subject: [mkars80] mkars 80

I was listening to a qso on 80 meters with my mkars and out ofinterest compared it to an eton e5.The eton had qrm probably internaland the audio was weak and not very clear.The mkars beat it handsdown!.I love this rig!.

Telly addicts unite!
http://www.searchgamesbox.com/tvtown.shtml

[Non-text portions of this message have been removed]

79. tx truble

Yahoo group: mkars80
Date: 2007-12-26 15:41:44 UTC
From: christopher660559
Topic: 79 Message: 79

hi all im at the stage of testing my mkars80 the reciver works fine i can hear ssb stations ok on my indoor loop ive done the pa bias ajustment all ok there ive done r59/c103 mixer balance i turned the controls for min signal on 2nd rx but in tx i get no rf output lots of rf at collector q19 low at q9 and q5 runs hot is it norm for q5 to get hot i will do some voltage checks on q9 and q5 any help offerd thanks chris g0wfh

80. tx truble

Yahoo group: mkars80
Date: 2007-12-26 16:11:24 UTC
From: christopher660559
Topic: 79 Message: 80

hi i think i found the fault q9 has voltage readings of e,6.6v
b,1.89v c,6.7v q9 has a c,e short time for a new one keep you
all posted chris

81. tx truble part3

Yahoo group: mkars80
Date: 2007-12-26 16:51:36 UTC
From: christopher660559
Topic: 81 Message: 81

hi new transistor fitted job done i now have 5 watts of rf
so im happy just have to put it in a case and get on the air
chris g0wfh

82. Re: [mkars80] tx truble part3

Yahoo group: mkars80
Date: 2007-12-26 20:36:52 UTC
From: Steve Drury
Topic: 81 Message: 82

Hi Chris,

Glad you got it going - does the transistor still read short C-E when out of circuit? I know one of our club members had a problem where a slither of solder passed through the bottom side of the hole and managed to short across the tracks on the top of the PCB, problem is it wasn't evident until voltage measurements were made. If you require a replacement transistor just ask.

I can confirm that as Q5 is working in class "A" it will get very warm (read quite hot!) in use, this transistor is working within its maximum ratings.

Let us know how you get on,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: christopher660559
To: mkars80@...
Sent: Wednesday, December 26, 2007 4:51 PM
Subject: [mkars80] tx truble part3

hi new transistor fitted job done i now have 5 watts of rf
so im happy just have to put it in a case and get on the air
chris g0wfh

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.17.9/1197 - Release Date: 25/12/2007 20:04

[Non-text portions of this message have been removed]

83. ref tx truble part 3

Yahoo group: mkars80
Date: 2007-12-26 23:25:52 UTC
From: christopher660559
Topic: 83 Message: 83

hi steve you got it. i checked the old transistor and its
ok it must have been what you said i would like to have
a replacement transistor if thats ok my kit is now in its
case ive been useing it on recive it works very good i just
got to get outside with a dipole and air test it sounds
good on my old icom. im useing a technika headset with mic
only £6.99 from tescos (i dont work for them)
thanks chris g0wfh

84. Re: [mkars80] ref tx truble part 3

Yahoo group: mkars80
Date: 2007-12-27 09:38:32 UTC
From: Steve Drury
Topic: 83 Message: 84

Chris,

I have also used a Technika microphone and found it good quality - several of us use a microphone from the Pound Shop which also work well!

Remember when transmiting just speak loud enough so the red LED flickers off - if it stays off you are speaking too loud or close to the microphone.

Have fun,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: christopher660559
To: mkars80@...
Sent: Wednesday, December 26, 2007 11:25 PM
Subject: [mkars80] ref tx truble part 3

hi steve you got it. i checked the old transistor and its
ok it must have been what you said i would like to have
a replacement transistor if thats ok my kit is now in its
case ive been useing it on recive it works very good i just
got to get outside with a dipole and air test it sounds
good on my old icom. im useing a technika headset with mic
only £6.99 from tescos (i dont work for them)
thanks chris g0wfh

Yahoo! Groups Links

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Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.17.9/1198 - Release Date: 26/12/2007 17:26

[Non-text portions of this message have been removed]

85. mkars80 job done

Yahoo group: mkars80
Date: 2007-12-29 13:40:26 UTC
From: christopher660559
Topic: 85 Message: 85

hi ive been out portable with my radio and an i,vee up 30ft
the radio worked a treat with good reports around the uk
im now doing a bitx20a kit keep you posted
chris g0wfh

86. Clicking and popping a problem ?

Yahoo group: mkars80
Date: 2007-12-29 16:56:15 UTC
From: Uli
Topic: 86 Message: 86

Hello,
I am a new member in the group and building a BITX20A from
qrpkits.com, because I have no antenna for 80m.
I think both transceivers have the same origin: the bidirectional SSB
transceiver for the 20m amateur radio band, designed and built by
Ashhar Farhan, 2004.
I and some other builders have problems with the BITX20A and there is
the possibility that you have solved this problems in your design.

1.)
An awkward loud clicking and popping in the headphones, if you
push/pull the PTT.

2.)
When switching from RX and TX, we get a brief (200 to 400msec)
transmission of RF (full power!)

So please let me know, wheather you have the same problems.

Many thanks

73 and HNY
Uli
DF5SF

87. Re: [mkars80] Clicking and popping a problem ?

Yahoo group: mkars80
Date: 2007-12-29 17:06:14 UTC
From: Steve Drury
Topic: 86 Message: 87

Hi Uli,

You will see that the power and RF switching arangement is different in our adaptation - notice I leave the audio amp powered all the time and mute it with a transisto, this reduces the switching "pop" to a very low level. I haven't noticed a burst of uncontrolled RF at switch-over, I guess this could be caused by microphone feed back which I think I suffered from with the first prototype but has now been eliminated.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Uli
To: mkars80@...
Sent: Saturday, December 29, 2007 4:56 PM
Subject: [mkars80] Clicking and popping a problem ?

Hello,
I am a new member in the group and building a BITX20A from
qrpkits.com, because I have no antenna for 80m.
I think both transceivers have the same origin: the bidirectional SSB
transceiver for the 20m amateur radio band, designed and built by
Ashhar Farhan, 2004.
I and some other builders have problems with the BITX20A and there is
the possibility that you have solved this problems in your design.

1.)
An awkward loud clicking and popping in the headphones, if you
push/pull the PTT.

2.)
When switching from RX and TX, we get a brief (200 to 400msec)
transmission of RF (full power!)

So please let me know, wheather you have the same problems.

Many thanks

73 and HNY
Uli
DF5SF

Yahoo! Groups Links

--
No virus found in this incoming message.

Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.17.11/1200 - Release Date: 27/12/2007 13:34

[Non-text portions of this message have been removed]

88. Re: Clicking and popping a problem ?

Yahoo group: mkars80
Date: 2007-12-29 18:55:00 UTC
From: Uli
Topic: 86 Message: 88

Hi Steve
many thanks for the quick reply.
I look for the differences in the 2 designs and take the best.
The modulation monitor is a nice feature - I will adopt this to my BITX20A

Regards
Uli
DF5SF

-- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Hi Uli,
>
> You will see that the power and RF switching arangement is different
in our adaptation - notice I leave the audio amp powered all the time
and mute it with a transisto, this reduces the switching "pop" to a
very low level. I haven't noticed a burst of uncontrolled RF at
switch-over, I guess this could be caused by microphone feed back
which I think I suffered from with the first prototype but has now
been eliminated.
>
> Regards,
> Steve G6ALU

89. a new MKARS is (nearly) born !!

Yahoo group: mkars80
Date: 2008-01-01 19:34:25 UTC
From: christian gondard
Topic: 89 Message: 89

I have spent some hours these 4 last days (when other family activities permit !) to build the MKARS80 kit

All went smoothly except my mistake on Q9 : I soldered a BC547 instead of a MPSH10 .. the poor BC547 lost one leg during the desoldering process .. As my local electronic shop is closed these days, I decided to continue the kitting, and choose not to install Q21 (amplifier on TX after the 10 MHz filter); so I will have all the RX chain, and the beginning of the TX chain.

I apply the 12V supply this afternoon at 18 o'clock, and all was fine : no smoke and a pleasant hum in the loudspeaker; after some adjustements on the VFO caps I was able to get a good coverage of the 80m band; after connecting my 2x20 m doublet on the BNC, a lot of stations were heard : so the little MKARS80 is working on RX !!; he can hear a 0.5 µV signal given by my RF generator;

On TX I can see the red LED and the relay clicking, and I was able to adjust the bias current of the IRF510 with R2; tomorrow I will try to detect the 10 MHZ SSB signal after the ladder filter

So a very pleasant kitting session, and results are at the level of my expectations !

Thanks a lot Steve for this very interesting kit, and congratulations for the very well done manual

I hope to make a qso these next days with another MKARS80

best seasons greetings to all on the list : I hope that 2008 will give you, first good health and success, and for ham radio, a lot of pleasures in kitting new devices, and using them !!

Best 72/73 de

Chris / F6FTB

90. Re: [mkars80] a new MKARS is (nearly) born !!

Yahoo group: mkars80
Date: 2008-01-01 19:43:57 UTC
From: Steve Drury
Topic: 89 Message: 90

Nearly there then Chris, many transistors could be substituted for the BC547 - any high gain general purpose device; BC546, BC548, BC106 - 109 etc or even many of the 2N series if you observe the different pin-out.

If you need a replacement transistor let me know and I will drop one in the post.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: christian gondard
To: mkars80@...
Sent: Tuesday, January 01, 2008 7:34 PM
Subject: [mkars80] a new MKARS is (nearly) born !!

I have spent some hours these 4 last days (when other family activities permit !) to build the MKARS80 kit

All went smoothly except my mistake on Q9 : I soldered a BC547 instead of a MPSH10 .. the poor BC547 lost one leg during the desoldering process .. As my local electronic shop is closed these days, I decided to continue the kitting, and choose not to install Q21 (amplifier on TX after the 10 MHz filter); so I will have all the RX chain, and the beginning of the TX chain.

I apply the 12V supply this afternoon at 18 o'clock, and all was fine : no smoke and a pleasant hum in the loudspeaker; after some adjustements on the VFO caps I was able to get a good coverage of the 80m band; after connecting my 2x20 m doublet on the BNC, a lot of stations were heard : so the little MKARS80 is working on RX !!; he can hear a 0.5 µV signal given by my RF generator;

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best seasons greetings to all on the list : I hope that 2008 will give you, first good health and success, and for ham radio, a lot of

pleasures in kitting new devices, and using them !!

Best 72/73 de

Chris / F6FTB

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.17.13/1205 - Release Date: 31/12/2007 15:32

[Non-text portions of this message have been removed]

91. Okay --- I'll Bite.

Yahoo group: mkars80
Date: 2008-01-07 22:18:00 UTC
From: Garry
Topic: 91 Message: 91

How does one get the front panel template to print out in the proper size. It always seems to come out about 80% of what is needed?
Anyone got a bitmap file of this instead of a Pdf file? I know how to change the size of a bitmap or .jpg with the software I have but no experience with these PDF's

73

Garry/Ve7ajj

92. RE: [mkars80] Okay --- I'll Bite.

Yahoo group: mkars80
Date: 2008-01-07 23:49:53 UTC
From: Christopher R. Ewing
Topic: 91 Message: 92

Gary,

When you print the front panel template, make sure the page scaling is set
to 'NONE and it will

Print the true size. Good Luck,

Chris Ewing G4DBR

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Garry
Sent: 07 January 2008 22:18
To: mkars80@...
Subject: [mkars80] Okay --- I'll Bite.

How does one get the front panel template to print out in the proper
size. It always seems to come out about 80% of what is needed?
Anyone got a bitmap file of this instead of a Pdf file? I know how
to change the size of a bitmap or .jpg with the software I have but no
experience with these PDF's

73

Garry/Ve7ajj

All files have been checked by Avast Anti-Virus Scanner and should by safe
to open - Any problems, please let me Know.

avast! Antivirus <http://www.avast.com> : Inbound message clean.

Virus Database (VPS): 080107-0, 07/01/2008
Tested on: 07/01/2008 23:46:00
avast! - copyright (c) 1988-2008 ALWIL Software.

All files have been checked by Avast Anti-Virus Scanner and should by safe
to open - Any problems, please let me Know.

avast! Antivirus <http://www.avast.com> : Outbound message clean.

Virus Database (VPS): 080107-0, 07/01/2008
Tested on: 07/01/2008 23:49:19
avast! - copyright (c) 1988-2008 ALWIL Software.

[Non-text portions of this message have been removed]

93. Re: Okay --- I'll Bite.

Yahoo group: mkars80
Date: 2008-01-08 04:29:30 UTC
From: Garry
Topic: 91 Message: 93

Okay. I'll see if I can find the page scaling and turn it off.

Thanks Chris
73
Garry/Ve7ajj

--- In mkars80@..., "Christopher R. Ewing" <chris@...>
wrote:
>
> Gary,
>
>
>
> When you print the front panel template, make sure the page scaling
is set
> to 'NONE and it will
>
> Print the true size. Good Luck,
>
>
>
> Chris Ewing G4DBR
>
>
>
> From: mkars80@... [mailto:mkars80@...]
On Behalf
> Of Garry
> Sent: 07 January 2008 22:18
> To: mkars80@yahoogroups.co.uk
> Subject: [mkars80] Okay --- I'll Bite.
>
>
>
> How does one get the front panel template to print out in the
proper
> size. It always seems to come out about 80% of what is needed?
> Anyone got a bitmap file of this instead of a Pdf file? I know how
> to change the size of a bitmap or .jpg with the software I have but
no
> experience with these PDF's
>
> 73
>
> Garry/Ve7ajj

>
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>
> _____
>
> All files have been checked by Avast Anti-Virus Scanner and should
by safe
> to open - Any problems, please let me Know.
>
> avast! Antivirus <http://www.avast.com> : Inbound message clean.
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> Virus Database (VPS): 080107-0, 07/01/2008
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> avast! - copyright (c) 1988-2008 ALWIL Software.
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> to open - Any problems, please let me Know.
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> avast! Antivirus <http://www.avast.com> : Outbound message clean.
>
>
> Virus Database (VPS): 080107-0, 07/01/2008
> Tested on: 07/01/2008 23:49:19
> avast! - copyright (c) 1988-2008 ALWIL Software.
>
>
>
>
> [Non-text portions of this message have been removed]
>

94. Re: Okay --- I'll Bite.

Yahoo group: mkars80
Date: 2008-01-08 04:38:06 UTC
From: Garry
Topic: 91 Message: 94

Hmm. Well it increased the size but still not to 100%. It prints at about 90% now. I'll have to scan it and save it as a .jpg or bitmap so I can adjust the size.

No problem. I'll get it.

Garry/Ve7ajj

--- In mkars80@..., "Garry" <ve7ajj@...> wrote:
>
> Okay. I'll see if I can find the page scaling and turn it off.
>
> Thanks Chris
> 73
> Garry/Ve7ajj
>
> --- In mkars80@..., "Christopher R. Ewing" <chris@>
> wrote:
> >
> > Gary,
> >
> >
> >
> > When you print the front panel template, make sure the page
scaling
> is set
> > to 'NONE and it will
> >
> > Print the true size. Good Luck,
> >
> >
> >
> > Chris Ewing G4DBR
> >
> >
> >
> > From: mkars80@...
[mailto:mkars80@...]
> On Behalf
> > Of Garry
> > Sent: 07 January 2008 22:18
> > To: mkars80@...
> > Subject: [mkars80] Okay --- I'll Bite.
> >
> >
> >

> > How does one get the front panel template to print out in the
> proper
> > size. It always seems to come out about 80% of what is needed?
> > Anyone got a bitmap file of this instead of a Pdf file? I know
how
> > to change the size of a bitmap or .jpg with the software I have
but
> no
> > experience with these PDF's
> >
> > 73
> >
> > Garry/Ve7ajj
> >
> >
> >
> >
> >
> >
> > _____
> >
> > All files have been checked by Avast Anti-Virus Scanner and
should
> by safe
> > to open - Any problems, please let me Know.
> >
> > avast! Antivirus <http://www.avast.com> : Inbound message clean.
> >
> > Virus Database (VPS): 080107-0, 07/01/2008
> > Tested on: 07/01/2008 23:46:00
> > avast! - copyright (c) 1988-2008 ALWIL Software.
> >
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> > _____
> >
> > All files have been checked by Avast Anti-Virus Scanner and
should
> by safe
> > to open - Any problems, please let me Know.
> >
> > avast! Antivirus <http://www.avast.com> : Outbound message clean.
> >
> >
> > Virus Database (VPS): 080107-0, 07/01/2008
> > Tested on: 07/01/2008 23:49:19
> > avast! - copyright (c) 1988-2008 ALWIL Software.
> >

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

95. RE: [mkars80] Okay --- I'll Bite.

Yahoo group: mkars80
Date: 2008-01-08 08:17:26 UTC
From: g6alu@tiscali.co.uk
Topic: 91 Message: 95

If anyone has a generic front panel in TIF format then let me have it
so it can put it on the web... the PDF file should print OK if scaling
is set to none, also try setting the paper size to A4 in case Acrobat
is forcing a re-scale for different size paper.

Steve G6ALU

>----Original Message----
>From: chris@...
>Date: 07/01/2008 23:49
>To: <mkars80@yahoogroups.co.uk>
>Subj: RE: [mkars80] Okay --- I'll Bite.
>
>Gary,
>
>
>
>When you print the front panel template, make sure the page scaling
is set
>to 'NONE and it will
>
>Print the true size. Good Luck,
>
>
>
>Chris Ewing G4DBR
>
>
>
>From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On
Behalf
>Of Garry
>Sent: 07 January 2008 22:18
>To: mkars80@...
>Subject: [mkars80] Okay --- I'll Bite.
>
>
>
>How does one get the front panel template to print out in the proper
>size. It always seems to come out about 80% of what is needed?
>Anyone got a bitmap file of this instead of a Pdf file? I know how
>to change the size of a bitmap or .jpg with the software I have but
no
>experience with these PDF's
>

>73
>
>Garry/Ve7ajj
>
>
>
>
>
>
> _____
>
>All files have been checked by Avast Anti-Virus Scanner and should by
safe
>to open - Any problems, please let me Know.
>
>avast! Antivirus <http://www.avast.com> : Inbound message clean.
>
>Virus Database (VPS): 080107-0, 07/01/2008
>Tested on: 07/01/2008 23:46:00
>avast! - copyright (c) 1988-2008 ALWIL Software.
>
>
>
>
>
> _____
>
>All files have been checked by Avast Anti-Virus Scanner and should by
safe
>to open - Any problems, please let me Know.
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>avast! Antivirus <http://www.avast.com> : Outbound message clean.
>
>
>Virus Database (VPS): 080107-0, 07/01/2008
>Tested on: 07/01/2008 23:49:19
>avast! - copyright (c) 1988-2008 ALWIL Software.
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>
>[Non-text portions of this message have been removed]
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>
>Yahoo! Groups Links
>
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>

>

_____
Get up to £150 by recycling your old mobile - visit www.tiscali.co.uk/recycle

97. a new MKARS80 is born

Yahoo group: mkars80
Date: 2008-01-13 18:07:46 UTC
From: christian gondard
Topic: 97 Message: 97

Hello to all

My MKARS80 is now completed and fully working !!
It was really a pleasure to build it
Absolutely no trouble during the assembly process, except the poor
BC547 who loosed a leg during a desoldering operation !
I have already some qso with it this evening with french and german
stations
Output power is near 6 watts on a tune; RX sensitivity is about 0.5 uV
for 10db S/N, which is sufficient on 80m

Tnx to Steve G6ALU fot this very good kit

Best regards

72/73 de

Chris / F6FTB

98. Re: [mkars80] a new MKARS80 is born

Yahoo group: mkars80
Date: 2008-01-13 21:04:21 UTC
From: Steve Drury
Topic: 97 Message: 98

Thanks for the compliments Christian... now go out and enjoy it!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: christian gondard
To: mkars80@...
Sent: Sunday, January 13, 2008 6:07 PM
Subject: [mkars80] a new MKARS80 is born

Hello to all

My MKARS80 is now completed and fully working !!
It was really a pleasure to build it
Absolutely no trouble during the assembly process, except the poor
BC547 who loosed a leg during a desoldering operation !
I have already some qso with it this evening with french and german
stations
Output power is near 6 watts on a tune; RX sensitivity is about 0.5 uV
for 10db S/N, which is sufficient on 80m

Tnx to Steve G6ALU fot this very good kit

Best regards

72/73 de

Chris / F6FTB

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.19.2/1221 - Release Date: 12/01/2008 14:04

[Non-text portions of this message have been removed]

100. Intererest in ordering kit!

Yahoo group: mkars80
Date: 2008-01-14 16:23:32 UTC
From: Louis
Topic: 100 Message: 100

Hello,

I am very interested in the MKARS80 unit! Are kits still available, and if so, what would be the cost? It is on my list of units to acquire in the near future.

Shipping would be to Seguin, TX 78155 USA

Thank you, Louis Upton

K1STX

101. Re: [mkars80] Intererest in ordering kit!

Yahoo group: mkars80
Date: 2008-01-14 18:41:43 UTC
From: Steve Drury
Topic: 100 Message: 101

Hi Louis... replied direct!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Louis
To: mkars80@...
Sent: Monday, January 14, 2008 4:23 PM
Subject: [mkars80] Intererest in ordering kit!

Hello,

I am very interested in the MKARS80 unit! Are kits still available,
and if so, what would be the cost? It is on my list of units to
acquire in the near future.

Shipping would be to Seguin, TX 78155 USA

Thank you, Louis Upton

K1STX

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.19.2/1222 - Release Date: 13/01/2008 12:23

[Non-text portions of this message have been removed]

102. mkars80

Yahoo group: mkars80
Date: 2008-01-15 12:29:23 UTC
From: bgallear
Topic: 102 Message: 102

hi all

congrats to steve G6ALU for a fine kit
mine is up and running no real problems waiting now for slow motion
drive to arrive

73 all g8vpr
member S.A.D.A.R.S group STAFFORD

103. Re: mkars80

Yahoo group: mkars80
Date: 2008-01-15 13:02:22 UTC
From: gpratley
Topic: 102 Message: 103

What slow motion drive did you go for?

Thanks

Graham G0OBJ

--- In mkars80@..., "bgallear" <BRIANG8VPR@...> wrote:
>
> hi all
>
> congrats to steve G6ALU for a fine kit
> mine is up and running no real problems waiting now for slow motion
> drive to arrive
>
> 73 all g8vpr
> member S.A.D.A.R.S group STAFFORD
>

104. Re: mkars80

Yahoo group: mkars80
Date: 2008-01-15 20:51:48 UTC
From: g0fxs
Topic: 102 Message: 104

--- In mkars80@..., "gpratley" <graham.pratley@...>
wrote:

Hi Graham

We followed a recommendation from Calvin at MKARS and bought the 10:1
Ball Drive type 6020/2 (part of the Jackson range) from Mainline
Electronics.

Keith G0FXS

> What slow motion drive did you go for?
>
> Thanks
>
> Graham G0OBJ
>
>
> --- In mkars80@..., "bgallear" <BRIANG8VPR@> wrote:
> >
> > hi all
> >
> > congrats to steve G6ALU for a fine kit
> > mine is up and running no real problems waiting now for slow
motion
> > drive to arrive
> >
> > 73 all g8vpr
> > member S.A.D.A.R.S group STAFFORD
> >
>

105. Re: [mkars80] MKARS 80

Yahoo group: mkars80
Date: 2008-01-15 21:24:09 UTC
From: Steve Drury
Topic: 74 Message: 105

Hello,

You recently enquired about the purchase of an MKARS80 kit, these have now been assembled.

The price of kit and undrilled box is 45 GBP, postage is 4 GBP and if paying by Paypal I pass on their commission of 2 GBP making a total of 51 GBP. My Paypal account is g6alu@... , if you wish to pay by bank transfer please contact me for my bank details.

You can also pay by cheque (drawn on a UK bank) made payable to:

Mr S A Drury
25 Crosslands,
Stantonbury,
Milton Keynes,
Bucks.
MK14 6AY
England

If you are not already a member perhaps you would like to join the Yahoo group I have set up for support of the MKARS80, it can be found at - http://uk.groups.yahoo.com/group/mkars80/ .

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: bright235spark
To: mkars80@...
Sent: Tuesday, December 18, 2007 8:28 AM
Subject: [mkars80] MKARS 80

Hi To the group,

This is my first post. I am a French licensed radio ham, currently
building a Bitx 20A. I think your project looks really good and would
like to know where I can order one.

I must have missed the price and ordering info, any help please ,

73

John Davis F5VLM G-QRP

Yahoo! Groups Links

--
No virus found in this incoming message.

Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.17.4/1188 - Release Date: 17/12/2007 14:13

[Non-text portions of this message have been removed]

106. Re: [mkars80] MKARS 80

Yahoo group: mkars80
Date: 2008-01-15 21:27:04 UTC
From: Steve Drury
Topic: 74 Message: 106

OK that should have gone to John direct....

Sorry John!

Steve G6ALU

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, January 15, 2008 9:24 PM
Subject: Re: [mkars80] MKARS 80

Hello,

You recently enquired about the purchase of an MKARS80 kit, these have now been assembled.

The price of kit and undrilled box is 45 GBP, postage is 4 GBP and if paying by Paypal I pass on their commission of 2 GBP making a total of 51 GBP. My Paypal account is g6alu@... , if you wish to pay by bank transfer please contact me for my bank details.

You can also pay by cheque (drawn on a UK bank) made payable to:

Mr S A Drury
25 Crosslands,
Stantonbury,
Milton Keynes,
Bucks.
MK14 6AY
England

If you are not already a member perhaps you would like to join the Yahoo group I have set up for support of the MKARS80, it can be found at - http://uk.groups.yahoo.com/group/mkars80/ .

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: bright235spark
To: mkars80@...
Sent: Tuesday, December 18, 2007 8:28 AM
Subject: [mkars80] MKARS 80

Hi To the group,

This is my first post. I am a French licensed radio ham, currently building a Bitx 20A. I think your project looks really good and would like to know where I can order one.

I must have missed the price and ordering info, any help please ,

73

John Davis F5VLM G-QRP

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.503 / Virus Database: 269.17.4/1188 - Release Date: 17/12/2007 14:13

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.19.4/1226 - Release Date: 15/01/2008 18:19

[Non-text portions of this message have been removed]

107. Re: [mkars80] MKARS 80

Yahoo group: mkars80
Date: 2008-01-16 08:03:16 UTC
From: John YAHOO
Topic: 74 Message: 107

> You recently enquired about the purchase of an MKARS80 kit, these have now
> been assembled.

MKARS80 now only sold assembled?

108. Re: [mkars80] MKARS 80

Yahoo group: mkars80
Date: 2008-01-16 08:18:12 UTC
From: g6alu@tiscali.co.uk
Topic: 74 Message: 108

No MKARS80 is NOT sold assembled, this is my poor use of the English language! What I meant to say is "components have been purchased and bagged up ready for despatch"!

All that wanted kits should now have been informed that they are ready, there are a few kits left over for any others wanting one.

Steve G6ALU

>----Original Message----
>From: v321uk@...
>Date: 16/01/2008 8:03
>To: <mkars80@...>
>Subj: Re: [mkars80] MKARS 80
>
>> You recently enquired about the purchase of an MKARS80 kit, these have now
>> been assembled.
>
>
>MKARS80 now only sold assembled?
>
>
>
>
>Yahoo! Groups Links
>
>
>
>

Get up to £150 by recycling your old mobile - visit www.tiscali.co.uk/recycle

109. DDS?

Yahoo group: mkars80
Date: 2008-01-19 21:01:58 UTC
From: Anil Raj
Topic: 109 Message: 109

Steve, you mention the possibility of using a DDS in the
documentation, how would you recommend connecting one to the MKARS80?
73s de Anil
sm0d

110. Re: [mkars80] DDS?

Yahoo group: mkars80
Date: 2008-01-19 23:21:18 UTC
From: Steve Drury
Topic: 109 Message: 110

Anil,

I've not proven it but my first suggestion would be to firstly disable the VFO (I'm sure you can work out how!) and remove C65 and inject the signal at this point.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Anil Raj
To: mkars80@...
Sent: Saturday, January 19, 2008 9:01 PM
Subject: [mkars80] DDS?

Steve, you mention the possibility of using a DDS in the
documentation, how would you recommend connecting one to the MKARS80?
73s de Anil
sm0d

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.19.7/1233 - Release Date: 19/01/2008 18:37

[Non-text portions of this message have been removed]

111. Slow Mo drive

Yahoo group: mkars80
Date: 2008-01-22 13:48:23 UTC
From: gpratley
Topic: 111 Message: 111

Hi All,

Eventhough I only got the kit yesterday, and I've not even plugged the iron in yet I got a quote from mainline for the recommended drive.

They quote £3.67 plus £3.75 postage. (yes the postage is more than the item)

This got me thinking, about a group buy.

Anyone interested?

Cheers

Graham G0OBJ

112. Re: [mkars80] Slow Mo drive

Yahoo group: mkars80
Date: 2008-01-22 16:03:45 UTC
From: BRIANG8VPR@AOL.COM
Topic: 111 Message: 112

hi all

we as a group S.A.D.A.R.S stafford arc
did a group buy and cost per item went down to £3-10pp

YES it does pay to groupbuy

brian g8vpr S.A.D.A.R.S

[Non-text portions of this message have been removed]

113. Re: [mkars80] Slow Mo drive

Yahoo group: mkars80
Date: 2008-01-22 17:40:19 UTC
From: David Lacey
Topic: 111 Message: 113

Hello,
Interesting idea Graham, and obviously worthwhile......how would you get the item to the individual
who joined the group purchase ?. That assumes they would be scattered around the Country !
I know the postage cost per individual would be less than the charge made by the seller (Mainline)
but could still prove expensive.
If the idea goes ahead...........add me to the list.
Regards
Dave G4JBE

----- Original Message ----
From: gpratley <graham.pratley@...>
To: mkars80@...
Sent: Tuesday, 22 January, 2008 1:48:23 PM
Subject: [mkars80] Slow Mo drive

Hi All,

Eventhough I only got the kit yesterday, and I've not even plugged the
iron in yet I got a quote from mainline for the recommended drive.

They quote £3.67 plus £3.75 postage. (yes the postage is more than the
item)

This got me thinking, about a group buy.

Anyone interested?

Cheers

Graham G0OBJ

_____
Sent from Yahoo! Mail - a smarter inbox http://uk.mail.yahoo.com

[Non-text portions of this message have been removed]

114. Re: Slow Mo drive

Yahoo group: mkars80
Date: 2008-01-22 21:00:50 UTC
From: g0fxs
Topic: 111 Message: 114

--- In mkars80@..., BRIANG8VPR@... wrote:
>Hi All

The reason for the cost of £3.10 for the slow motion drives was that
I was originally quoted £2.62 + VAT + £3.75 postage, but when I
received the bill I had been charged £3.12 + VAT + £3.75 postage.
I might be back to the membership for more money!!!.

Keith G0FXS (SADARS)

> hi all
>
> we as a group S.A.D.A.R.S stafford arc
> did a group buy and cost per item went down to £3-10pp
>
> YES it does pay to groupbuy
>
> brian g8vpr S.A.D.A.R.S
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

115. RE: [mkars80] Re: Slow Mo drive

Yahoo group: mkars80
Date: 2008-01-22 21:13:14 UTC
From: Christopher R. Ewing
Topic: 111 Message: 115

No problem Keith, let me know what I owe. Thanks for getting them. Anyone got any small screws or bolts

To fit it

Chris G4DBR

From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf Of g0fxs
Sent: 22 January 2008 21:01
To: mkars80@...
Subject: [mkars80] Re: Slow Mo drive

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> , BRIANG8VPR@... wrote:
>Hi All

The reason for the cost of £3.10 for the slow motion drives was that I was originally quoted £2.62 + VAT + £3.75 postage, but when I received the bill I had been charged £3.12 + VAT + £3.75 postage. I might be back to the membership for more money!!!.

Keith G0FXS (SADARS)

> hi all
>
> we as a group S.A.D.A.R.S stafford arc
> did a group buy and cost per item went down to £3-10pp
>
> YES it does pay to groupbuy
>
> brian g8vpr S.A.D.A.R.S
>
>
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

All files have been checked by Avast Anti-Virus Scanner and should by safe to open - Any problems, please let me Know.

avast! Antivirus <http://www.avast.com> : Inbound message clean.

Virus Database (VPS): 080122-1, 22/01/2008
Tested on: 22/01/2008 21:11:16
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All files have been checked by Avast Anti-Virus Scanner and should by safe
to open - Any problems, please let me Know.

avast! Antivirus <http://www.avast.com> : Outbound message clean.

Virus Database (VPS): 080122-1, 22/01/2008
Tested on: 22/01/2008 21:13:11
avast! - copyright (c) 1988-2008 ALWIL Software.

[Non-text portions of this message have been removed]

116. mkars80 slo-mo

Yahoo group: mkars80
Date: 2008-01-22 21:30:39 UTC
From: David Lacey
Topic: 116 Message: 116

Hi all
There appears to interest in the slow motion drive, this has its problems (mounting hardware)
for some. I offer the following info for you : Squires (model and craft tools)
Tel. 01243 842424
Fax. 01243 842525
E-mail : sales@...
web. www.squirestools.com
They stock from 16Ba upwards, and from M2 upwards, plus a reasonably good range of electronic components and of course tools and modelling bits and pieces. (no I am NOT associated with this company)
Regards
Dave G4JBE

_____
Sent from Yahoo! Mail - a smarter inbox http://uk.mail.yahoo.com

[Non-text portions of this message have been removed]

117. Re: Slow Mo drive

Yahoo group: mkars80
Date: 2008-01-23 10:05:36 UTC
From: gpratley
Topic: 111 Message: 117

I guess my first post was just to see what the interest was like.
I'm not sure how many kits have gone out this month, or how much
benefit is to be gained by fitting a drive.

But the way I see the maths is that 1 unit costs £7.42. If I buy 10
they work out at £4.04 each. (almost half the price).

As you say there is then the cost of sending the drives out to each
of the Ham's. This would be added at cost to each person rather than
a blanket rate. I can't guess what this would be because of the
stupid way the post office now calculate the cost. But I would I
guess around a quid.

All this effort to save £2.50?

Graham G0OBJ

--- In mkars80@yahoogroups.co.uk, David Lacey <g4jbe@...> wrote:
>
> Hello,
> Interesting idea Graham, and obviously worthwhile......how would
you get the item to the individual
> who joined the group purchase ?. That assumes they would be
scattered around the Country !
> I know the postage cost per individual would be less than the
charge made by the seller (Mainline)
> but could still prove expensive.
> If the idea goes ahead...........add me to the list.
> Regards
> Dave G4JBE
>
>
> ----- Original Message ----
> From: gpratley <graham.pratley@...>
> To: mkars80@...
> Sent: Tuesday, 22 January, 2008 1:48:23 PM
> Subject: [mkars80] Slow Mo drive
>
> Hi All,
>
> Eventhough I only got the kit yesterday, and I've not even plugged
the
> iron in yet I got a quote from mainline for the recommended drive.
>
> They quote Â£3.67 plus Â£3.75 postage. (yes the postage is more
than the

> item)
>
> This got me thinking, about a group buy.
>
> Anyone interested?
>
> Cheers
>
> Graham G0OBJ
>
>
>
>
>
>
> --
> Sent from Yahoo! Mail - a smarter inbox http://uk.mail.yahoo.com
>
>
> [Non-text portions of this message have been removed]
>

118. Re: [mkars80] Re: Slow Mo drive

Yahoo group: mkars80
Date: 2008-01-23 10:29:51 UTC
From: G8IFF/KC8NHF
Topic: 111 Message: 118

gpratley wrote:
> how much benefit is to be gained by fitting a drive.
>
I fitted one that I had in the junk box and subsequently didn't need to
fit the fine tune pot.
I believe one of our club members did a bulk buy as several members
wanted them.

--
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
Nigel A. Gunn. 59 Beadlemead, Milton Keynes, MK6 4HF, England.
Tel +44 (0)1908 604004 mobile +44 (0)7951079089
e-mail nigel@... www http://www.ngunn.net
Amateur radio stations G8IFF, KC8NHF
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
Dayton ARA #2128, AMSAT-NA LM-1691, MKARS, RAYNET
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>

119. Yippee!

Yahoo group: mkars80
Date: 2008-01-25 19:12:52 UTC
From: Louis
Topic: 119 Message: 119

Steve,
Received my kit in the mail today!! Thank You for the great service!
Looking forward to some time off to start working on it.

Louis
K1STX

120. Computer Boom Mikes

Yahoo group: mkars80
Date: 2008-01-25 21:31:24 UTC
From: ve3xj
Topic: 120 Message: 120

Greetings:

I just got my kit today, so amongst all the other things I have to do over the next few days (like reading for a couple of university courses), I will be cleaning up my work space and start working on the board starting tomorrow. (How many hours has it taken others to assemble the board?)

To get to my point, has anybody tried to use these el-cheapo computer boom mike/headsets? If so, I would like to know if you have been successful or not.

I am also anxious to get my NUE-PSK box and try it out with this little rig.

73

Jim, VE3XJ

121. Re: [mkars80] Computer Boom Mikes

Yahoo group: mkars80
Date: 2008-01-25 22:05:57 UTC
From: Steve Drury
Topic: 120 Message: 121

Jim,

In our local group most of us use el cheapo microphones, I have several; headset purchased from a radio rally for £1.50, several pound shop PC microphones and several very low cost desk microphones.

The radio has plenty of audio gain so most electrect mics will work.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: ve3xj
To: mkars80@...
Sent: Friday, January 25, 2008 9:31 PM
Subject: [mkars80] Computer Boom Mikes

Greetings:

I just got my kit today, so amongst all the other things I have to do over the next few days (like reading for a couple of university courses), I will be cleaning up my work space and start working on the board starting tomorrow. (How many hours has it taken others to assemble the board?)

To get to my point, has anybody tried to use these el-cheapo computer boom mike/headsets? If so, I would like to know if you have been successful or not.

I am also anxious to get my NUE-PSK box and try it out with this little rig.

73

Jim, VE3XJ

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.19.11/1243 - Release Date: 25/01/2008 11:24

[Non-text portions of this message have been removed]

122. Re: [mkars80] Computer Boom Mikes

Yahoo group: mkars80
Date: 2008-01-25 22:08:13 UTC
From: Bob Rushby
Topic: 120 Message: 122

Hi Jim...

I've tried a PC mic with my BITX20a and it seems to work, although I havent made any contacts yet. It sounds ok when listening on my big rig.

I also have a MKARS80 which I am about to start building and have a NUE-PSK on order, so it sounds like we're experimenting with similar technology.

QTH is Cambridge. Hope to meet you on the air when I get everything working.

73,
Bob VE3GLA

----- Original Message ----
From: ve3xj <ve3xj@...>
To: mkars80@...
Sent: Friday, January 25, 2008 4:31:24 PM
Subject: [mkars80] Computer Boom Mikes

Greetings:

I just got my kit today, so amongst all the other things I have to do over the next few days (like reading for a couple of university courses), I will be cleaning up my work space and start working on the board starting tomorrow. (How many hours has it taken others to assemble the board?)

To get to my point, has anybody tried to use these el-cheapo computer boom mike/headsets? If so, I would like to know if you have been successful or not.

I am also anxious to get my NUE-PSK box and try it out with this little rig.

73

Jim, VE3XJ

[Non-text portions of this message have been removed]

123. Another MKARS80 comes alive

Yahoo group: mkars80
Date: 2008-01-31 10:25:22 UTC
From: gpratley
Topic: 123 Message: 123

Hi All,

Last night I heard me first signals on my set. I have to say that this is by far one of the best kits I have ever built. The quality of the PCB is first rate. The way the parts are arranged in bags. The detailed instructions!! Everything is included, the only thing that is missing is the Knobs and the dril bit to make the hole ;-)

Tonight I start the alignment.

Graham G0OBJ

124. project mkars80 onto 15m band

Yahoo group: mkars80
Date: 2008-02-24 20:05:45 UTC
From: christopher660559
Topic: 124 Message: 124

hi all im well on the way with my 15m band project im useing a larger
case for this kit all the drilling is done hole for the frq display
is done im useing a cumbria designs kit for frq counter and vfo
stabiliser both are built and tested the main kits if will be on 16mhz
the bfo/cio is built and tested on frq ok im now doing the vfo
witch will be on 5 to 5.4 mhz apart from the bpf lpf rx tuning coil
the rest will be built as in the hand book i will keep you all
posted to how i get on chris g0wfh

125. Re: project mkars80 onto 15m band

Yahoo group: mkars80
Date: 2008-02-24 21:30:26 UTC
From: christopher660559
Topic: 124 Message: 125

hi all just to add ive now done the vfo i kept all the
same parts i only changed L5 it now has 46 turns (was 40)
and i get 5.o81 to 5.413 mhz ofcorse im keeping Q8 as a rf amp
to drive the frq counter and vfo sabiliser the output of
the sabiliser connects to R31 to control D5 as the pic would
have done ic2 is not used in this project chris g0wfh

126. Re: [mkars80] project mkars80 onto 15m band

Yahoo group: mkars80
Date: 2008-02-25 01:28:09 UTC
From: Trailriding_Texas
Topic: 124 Message: 126

Could you PLEASE!!!! Use punctuation and/or spacing between your sentences!!!
Had to read you post 5 times, and it still does not make total sense!
I am interested in the possibility of expanding/converting this type of unit, but your post is confusing.

Thank You,

K1STX

christopher660559 <g0wfhchris@...> wrote: hi all im well on the way with my 15m band project im useing a larger
case for this kit all the drilling is done hole for the frq display
is done im useing a cumbria designs kit for frq counter and vfo
stabiliser both are built and tested the main kits if will be on 16mhz
the bfo/cio is built and tested on frq ok im now doing the vfo
witch will be on 5 to 5.4 mhz apart from the bpf lpf rx tuning coil
the rest will be built as in the hand book i will keep you all
posted to how i get on chris g0wfh

Hill Country REACT
Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

[Non-text portions of this message have been removed]

127. VE3XJ Progess and Possible Mods

Yahoo group: mkars80
Date: 2008-02-26 13:02:05 UTC
From: ve3xj
Topic: 127 Message: 127

Greetings:

Not that this is all that earth shattering, but after finally getting down to the nitty-gritty of warming up the soldering iron last Thursday, I am up to the point of where I have soldered in D3, the power protection diode (darn good idea - it would have been my first mod if not included on the board).

I have been thinking of a couple of mods, both involving digital operation.

One is to build in a computer sound card interface for the computer generated modes, such as PSK31. This mod would lend itself to some experimentation with the digital voice modes. An example of this mod can be found in the photo section (as I recall) in the BITX20 group.

The second is a bit of a throw-back, NO NOT CW but direct FSK for rtty. I recall an article in the old 73 Magazine where someone modified a Heathkit 101 for FSK by adding a relay and a capacitor to the VFO circuit and then adjusting the capacitor in order to generate the 170 Hz shift. I think the author then used the rig in the CW mode in order to work RTTY and used the RX RIT to adjust the reciever for the ~2100 Hz tones to his demodulator. I was thinking of doing something similar with a varicap and some sort of electronic switching, perhaps a garden variety diode. At first, I dismissed the varicap idea and was considering going with an adjustable capacitor, because I thought that the varicap might drift after having been turned on. But I have been giving some second thoughts, and I think that freq drift would be minimal as the H&P stabilizer would take care of any freq drift. The other advantage with using the varicap would be that I could adjust it for the required tones for mod and demod.

As far as generating the transmit signal, I thought I would use an idea that Heathkit used in their SB301 transmitter for generating a CW signal by unbalancing the diode ring (using a relay to short circuit one of the diodes), thus unbalancing the ring thence allowing the carrier through.

Any thoughts on this approach or have others looked into this? No point in re-inventing the wheel...

Thanks & 73 to all,

Jim, VE3XJ

[Non-text portions of this message have been removed]

128. Fw: MKARS80

Yahoo group: mkars80
Date: 2008-03-02 17:36:06 UTC
From: Steve Drury
Topic: 128 Message: 128

Forwarded to list from private enail....

Hi Steve

Last week 23rd, I put the almost ready MKARS80 on at the Finningley Amateur Radio Society and tried out the receiver on the G5RV. I am sure I heard your club.

This Saturday 1st March, I put the set on with all its bits attached and heard GB2IWM on 3.7511 calling CQ. Calling back with the club callsign G0GHK I got Max at the Imperial War Museum Duxford. He gave me 5&9+ and the output wasn't even getting warm. I did not find any problems lining it up.

During one over the frequency of the MKARS 80 jumped to about3.77 and he thought it was QRM. I only noticed it towards the end of the over and rapidly retuned. The huff & puff ?

Overall I am immensely impressed by its performance and would only think it could get any better if I could inject a 600-700hz tone to give me 'CW' capability. I could use a manual transmit switch or, if the relay was fast enough, use full break-in – any ideas about an oscillator (555 with sinewave shaper?) and where to inject and at how many micro/millivolts?

The mic/earphone combination is a £3.99 headset from Netto. I used the 3 core for the mic & PTT and the original mic cable paralleled across the earphone to give a 16 ohm impedance. I took the volume control out of the lead and substituted a little push to make switch installed in a miniature plastic hotel shampoo bottle about 5cms long.
I look forward to the more comprehensive multiband design I believe you are doing.

I am supposed to be on the Yahoo group for the MKARS80 but it doesn't seem to upload so you are getting this.

Feel free to put it on the web using my callsign G3WDL.

Thanks again

Stuart Boast

G3WDL

[Non-text portions of this message have been removed]

129. Re: [mkars80] Fw: MKARS80

Yahoo group: mkars80
Date: 2008-03-02 19:19:40 UTC
From: Steve Drury
Topic: 128 Message: 129

Stuart,

I'm glad it works well for you, with regard to the sudden loss of lock from the Hufff and Puff; this is due to the VFO drifting to the edge of the Huff and Puff lock range at which point it will jump back to the centre tuning point. The amount of correction is shown by the bar graph, when it gets to one end its time to hand the QSO back and make an adjustment!

I built a CW interface and had John M0TIF (MKARS club chairman) try it out, he found it difficult to use due to VFO drift. It seems that CW has a higher duty cycle than SSB which exaggerates the drift phenomena.

I still have the prototype CW generator here if you want to give it a try?

Please be careful when using headphones, this radio doesn't have AGC and sometimes you can be surprised when a local station responds to a CQ call!

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, March 02, 2008 5:36 PM
Subject: [mkars80] Fw: MKARS80

Forwarded to list from private enail....

Hi Steve

Last week 23rd, I put the almost ready MKARS80 on at the Finningley Amateur Radio Society and tried out the receiver on the G5RV. I am sure I heard your club.

This Saturday 1st March, I put the set on with all its bits attached and heard GB2IWM on 3.7511 calling CQ. Calling back with the club callsign G0GHK I got Max at the Imperial War Museum Duxford. He gave me 5&9+ and the output wasn’t even getting warm. I did not find any problems lining it up.

During one over the frequency of the MKARS 80 jumped to about3.77 and he thought it was QRM. I only noticed it towards the end of the over and rapidly retuned. The huff & puff ?

Overall I am immensely impressed by its performance and would only think it could get any better if I could inject a 600-700hz tone to give me ‘CW’ capability. I could use a manual transmit switch or, if the relay was fast enough, use full break-in – any ideas about an oscillator (555 with sinewave shaper?) and where to inject and at how many micro/millivolts?

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I look forward to the more comprehensive multiband design I believe you are doing.

I am supposed to be on the Yahoo group for the MKARS80 but it doesn’t seem to upload so you are getting this.

Feel free to put it on the web using my callsign G3WDL.

Thanks again

Stuart Boast

G3WDL

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.21.3/1306 - Release Date: 01/03/2008 17:41

[Non-text portions of this message have been removed]

130. CW

Yahoo group: mkars80
Date: 2008-03-02 21:10:44 UTC
From: stuartboast
Topic: 130 Message: 130

Thanks Steve

Can you send me the details of your CW generator. I'm always willing to try something new.

I was a Marconi Radio Officer, Merchant Navy for five years 60s-70s and the stuff we worked with had crystal controlled transmitters but the receivers were a bit variable and needed a hand on the tuning dial some days - I hardly ever used the superb filters because adjusting the tuning became boring trying to track a 100hz bandwidth.

As for the headphones, they were always worn just in front of the ears so that the pressure wave hit the skin instead of the ear canal and we had to wear them for quite a long time when at the desk. This is a habit I've never grown out of but I appreciate the warning.

I hadn't realised there was bar graph.

I will check the user group again and thanks again

Stuart G3WDL

131. Re:CW

Yahoo group: mkars80
Date: 2008-03-04 09:05:59 UTC
From: John Housego
Topic: 130 Message: 131

Hiya Stuart,

Would be very interested to hear how you get on with your trials using CW with the MKARS80. I personally found the drift issue that is acceptable on SSB became far more pronounced on CW making it very difficult to use.

Cheers

John (M0TIF)

[Non-text portions of this message have been removed]

132. Re: [mkars80] Re:CW

Yahoo group: mkars80
Date: 2008-03-04 18:43:21 UTC
From: john boast
Topic: 130 Message: 132

Hi John

It may be a while yet - lots of stuff to do - I am a Royal Lifesaving Society Adviser, have a couple of hobby jobs - RLSS South Yorkshire Branch Secretary and an open water Lifeguard Club Secretary. I only work part-time at a proper job but busy busy.
Any suggestions about stabilising the oscillator? (I like easy short cuts when someone else can do the thinking.)
Where is the drift coming from? Can we manually retune so that the huff n puff can keep within its control limits?
What length of over are we talking about? Can we just send short messages instead of a 'ragchew'?
At what point does the thing stop drifting?
Is it a positive towards HF or negative towards LF drift?

All these questions and more - can you add any?

Stuart
G3WDL

----- Original Message ----
From: John Housego <John.Housego1@...>
To: mkars80@...
Sent: Tuesday, 4 March, 2008 9:05:59 AM
Subject: [mkars80] Re:CW

Hiya Stuart,

Would be very interested to hear how you get on with your trials using
CW with the MKARS80. I personally found the drift issue that is
acceptable on SSB became far more pronounced on CW making it very
difficult to use.

Cheers

John (M0TIF)

[Non-text portions of this message have been removed]

Sent from Yahoo! Mail.
A Smarter Inbox. http://uk.docs.yahoo.com/nowyoucan.html

[Non-text portions of this message have been removed]

133. Re: [mkars80] Re:CW

Yahoo group: mkars80
Date: 2008-03-04 19:01:00 UTC
From: Steve Drury
Topic: 130 Message: 133

Stuart,

The drifting... this is caused by heating of the polyvaricon, unavoidable with this design as it is mounted directly to the PCB; I have tried spacing it from the board but found it makes little difference.

What can you do? Keep an eye on the little bar graph and slowly adjust the fine tune control to compensate, if you have a slow motion drive you will find it easier to adjust. As for general CW operation I will leave that for John to answer, I'm not qualified!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: john boast
To: mkars80@...
Sent: Tuesday, March 04, 2008 6:43 PM
Subject: Re: [mkars80] Re:CW

Hi John

It may be a while yet - lots of stuff to do - I am a Royal Lifesaving Society Adviser, have a couple of hobby jobs - RLSS South Yorkshire Branch Secretary and an open water Lifeguard Club Secretary. I only work part-time at a proper job but busy busy.
Any suggestions about stabilising the oscillator? (I like easy short cuts when someone else can do the thinking.)
Where is the drift coming from? Can we manually retune so that the huff n puff can keep within its control limits?
What length of over are we talking about? Can we just send short messages instead of a 'ragchew'?
At what point does the thing stop drifting?
Is it a positive towards HF or negative towards LF drift?

All these questions and more - can you add any?

Stuart
G3WDL

----- Original Message ----
From: John Housego <John.Housego1@...>
To: mkars80@...
Sent: Tuesday, 4 March, 2008 9:05:59 AM
Subject: [mkars80] Re:CW

Hiya Stuart,

Would be very interested to hear how you get on with your trials using CW with the MKARS80. I personally found the drift issue that is acceptable on SSB became far more pronounced on CW making it very difficult to use.

Cheers

John (M0TIF)

[Non-text portions of this message have been removed]

Sent from Yahoo! Mail.
A Smarter Inbox. http://uk.docs.yahoo.com/nowyoucan.html

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.516 / Virus Database: 269.21.4/1309 - Release Date: 03/03/2008 18:50

[Non-text portions of this message have been removed]

134. M0AIJ portable setup

Yahoo group: mkars80
Date: 2008-03-08 22:30:19 UTC
From: dagmine
Topic: 134 Message: 134

Hello , I have just finished my MKARS 80, haven't got it into a box yet. Could anyone give me some more information on the antenna used in M0AIJ's portable setup? How well does in work? What kind of range does it get?

David G.
N1OMO

135. mkars80 on 15m

Yahoo group: mkars80
Date: 2008-03-08 23:23:33 UTC
From: christopher660559
Topic: 135 Message: 135

hi i now have my radio working on 15m. rx is ok signals seam a little
low so may need a pre amp. although the band is closed most of the time
the tx signal sounds ok on my old icom radio. but my tx output seams
to be in the Mw range i need to increse tx gain at Q9 or use a pre amp
afther the band pass filter any help feel free to say my other projects
for other bands with the mkars80 are on hold as i have just got a k2
with a,atu , ssb ,nb ,160m,units to build my 4th one i sold the others
chris g0wfh

136. Re: [mkars80] M0AIJ portable setup

Yahoo group: mkars80
Date: 2008-03-09 06:35:21 UTC
From: charles blake
Topic: 134 Message: 136

Hi David - I use a W3EDP wire with my MKARS80 /P setup and it works well. I hope you have a lot of fun with your MKARS80.

Regards Charlie/M0AIJ

----- Original Message -----
From: dagmine
To: mkars80@...
Sent: Saturday, March 08, 2008 10:30 PM
Subject: [mkars80] M0AIJ portable setup

Hello , I have just finished my MKARS 80, haven't got it into a box yet.
Could anyone give me some more information on the antenna used in
M0AIJ's portable setup? How well does in work? What kind of range does
it get?

David G.
N1OMO

[Non-text portions of this message have been removed]

137. Re: [mkars80] M0AIJ portable setup

Yahoo group: mkars80
Date: 2008-03-09 14:24:30 UTC
From: Davenpam
Topic: 134 Message: 137

Charlie, oh so the extendable antenna shown in the picture is not for
the MKARS80.

Thanks

David

charles blake wrote:
>
> Hi David - I use a W3EDP wire with my MKARS80 /P setup and it works
> well. I hope you have a lot of fun with your MKARS80.
>
> Regards Charlie/M0AIJ
>
> ----- Original Message -----
> From: dagmine
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Saturday, March 08, 2008 10:30 PM
> Subject: [mkars80] M0AIJ portable setup
>
> Hello , I have just finished my MKARS 80, haven't got it into a box yet.
> Could anyone give me some more information on the antenna used in
> M0AIJ's portable setup? How well does in work? What kind of range does
> it get?
>
> David G.
> N1OMO
>
> [Non-text portions of this message have been removed]
>
>

138. Re: [mkars80] M0AIJ portable setup

Yahoo group: mkars80
Date: 2008-03-10 06:31:54 UTC
From: charles blake
Topic: 134 Message: 138

Hi David,

The extendable antenna shown in the photo didn't prove to be very efficient, so I changed to a W3EDP wire. The W3EDP wire has given me HF /P contacts on all HF bands (except 160m) all over the world using various rigs and powers up to 100W.

Regards, Charlie/M0AIJ

----- Original Message -----
From: Davenpam
To: mkars80@...
Sent: Sunday, March 09, 2008 2:24 PM
Subject: Re: [mkars80] M0AIJ portable setup

Charlie, oh so the extendable antenna shown in the picture is not for
the MKARS80.

Thanks

David

charles blake wrote:
>
> Hi David - I use a W3EDP wire with my MKARS80 /P setup and it works
> well. I hope you have a lot of fun with your MKARS80.
>
> Regards Charlie/M0AIJ
>
> ----- Original Message -----
> From: dagmine
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Saturday, March 08, 2008 10:30 PM
> Subject: [mkars80] M0AIJ portable setup
>
> Hello , I have just finished my MKARS 80, haven't got it into a box yet.
> Could anyone give me some more information on the antenna used in
> M0AIJ's portable setup? How well does in work? What kind of range does
> it get?
>
> David G.
> N1OMO
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

139. Re: VE3XJ Progess and Possible Mods

Yahoo group: mkars80
Date: 2008-03-13 02:25:15 UTC
From: Eric Engler
Topic: 127 Message: 139

--- In mkars80@..., "ve3xj" <ve3xj@...> wrote:
> I have been thinking of a couple of mods, both involving digital
> operation.
>
> One is to build in a computer sound card interface for the computer
> generated modes, such as PSK31.

I'd definitely like to see this. psk31 works well with low power levels.

Eric, KC8YB

140. 2 x mkars80's for sale

Yahoo group: mkars80
Date: 2008-03-15 23:31:58 UTC
From: christopher660559
Topic: 140 Message: 140

hi due to me buying a k2 and a k3 my projects with mkars kits
have been binned so i have 2 unbiult kits for sale with cases
£45 each the going rate contact me off list at
g0wfhchris@... thanks chris

141. Where to get the kits

Yahoo group: mkars80
Date: 2008-03-22 12:20:29 UTC
From: dagmine
Topic: 141 Message: 141

Are the kits still available? if so how, where would one order one?

David
N1OMO

142. Re: Where to get the kits

Yahoo group: mkars80
Date: 2008-03-22 12:27:46 UTC
From: Louis
Topic: 141 Message: 142

Contact Steve Drury direct at hamlab3@...! The kits are still
being produced in batches, ordered and received mine back in January I
think it was! Very well made and packaged! Although, putting mine
together has been slow going! Too many other projects and commitments.

There were 2 unbuilt kits posted for sale last week, read message 140:
http://uk.groups.yahoo.com/group/mkars80/message/140

Good Luck! Cannot wait to get mine together and on the air! Will
have to wait for a rain day though!

Louis

--- In mkars80@..., "dagmine" <davenpam@...> wrote:
>
> Are the kits still available? if so how, where would one order one?
>
> David
> N1OMO
>

143. Re: Where to get the kits

Yahoo group: mkars80
Date: 2008-03-22 13:12:08 UTC
From: dagmine
Topic: 141 Message: 143

--- In mkars80@..., "Louis" <trailriding_texas@...> wrote:
>
> Contact Steve Drury direct at hamlab3@...! The kits are still
> being produced in batches, ordered and received mine back in January

That email address bounced? Could you check it, is there an
alternative address?

David G.

144. Re: [mkars80] Re: Where to get the kits

Yahoo group: mkars80
Date: 2008-03-22 16:41:05 UTC
From: Trailriding_Texas
Topic: 141 Message: 144

Steve is on this forum, try looking in the archives for the last week for a message he has sent, and then click on the e-mail link for him in that message. Here is the link to his last post! Click on the e-mail link to the right of his post!

http://uk.groups.yahoo.com/group/mkars80/message/121

dagmine <davenpam@...> wrote: --- In mkars80@..., "Louis" <trailriding_texas@...> wrote:
>
> Contact Steve Drury direct at hamlab3@...! The kits are still
> being produced in batches, ordered and received mine back in January

That email address bounced? Could you check it, is there an
alternative address?

David G.

Hill Country REACT
Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

[Non-text portions of this message have been removed]

145. Re: [mkars80] Re: Where to get the kits

Yahoo group: mkars80
Date: 2008-03-22 17:59:44 UTC
From: Steve Drury
Topic: 141 Message: 145

I got the message OK but for any contact its best to use g6alu@... .

I produce kits in small batches, this is less tiresome than trying to get 100 sets of components together in one go!

My XYL bags up 5 sets at a time and I check all components from one set to make sure all is correct - I often mark the packing slip in pencil when I have coounted the components - so yes there is quality control for anyone wondering.....

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Trailriding_Texas
To: mkars80@...
Sent: Saturday, March 22, 2008 4:41 PM
Subject: Re: [mkars80] Re: Where to get the kits

Steve is on this forum, try looking in the archives for the last week for a message he has sent, and then click on the e-mail link for him in that message. Here is the link to his last post! Click on the e-mail link to the right of his post!

http://uk.groups.yahoo.com/group/mkars80/message/121

dagmine <davenpam@...> wrote: --- In mkars80@..., "Louis" <trailriding_texas@...> wrote:
>
> Contact Steve Drury direct at hamlab3@...! The kits are still
> being produced in batches, ordered and received mine back in January

That email address bounced? Could you check it, is there an
alternative address?

David G.

Hill Country REACT
Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.519 / Virus Database: 269.21.8/1338 - Release Date: 21/03/2008 17:52

[Non-text portions of this message have been removed]

146. Parts list cross over

Yahoo group: mkars80
Date: 2008-03-22 22:22:06 UTC
From: dagmine
Topic: 146 Message: 146

Is anyone interested in helping me cross over the MKARS80 bill of
materials at http://www.radio-kits.co.uk/ to Mouser.com numbers.

I just ordered two PCBs and hope to cross most of the components over
to a U.S. supplier.

David G.
N1OMO

147. Re: [mkars80] Re: Where to get the kits

Yahoo group: mkars80
Date: 2008-03-23 03:51:11 UTC
From: Trailriding_Texas
Topic: 141 Message: 147

Thanks Steve, I could not find where I had saved that e-mail at, will save it in my e-mail addresses so it can be found next time.

Wish I had the time to finish my kit, it was well packaged, marked, and everything was there as advertised. My XYL has informed me that we will have a house full of people tommorrow! Ughhh! A day off from work, and I have to entertain instead of playing with my radios!

Steve Drury <g6alu@...> wrote: I got the message OK but for any contact its best to use g6alu@... .

I produce kits in small batches, this is less tiresome than trying to get 100 sets of components together in one go!

My XYL bags up 5 sets at a time and I check all components from one set to make sure all is correct - I often mark the packing slip in pencil when I have coounted the components - so yes there is quality control for anyone wondering.....

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Trailriding_Texas
To: mkars80@...
Sent: Saturday, March 22, 2008 4:41 PM
Subject: Re: [mkars80] Re: Where to get the kits

Steve is on this forum, try looking in the archives for the last week for a message he has sent, and then click on the e-mail link for him in that message. Here is the link to his last post! Click on the e-mail link to the right of his post!

http://uk.groups.yahoo.com/group/mkars80/message/121

dagmine <davenpam@...> wrote: --- In mkars80@..., "Louis" <trailriding_texas@...> wrote:
>
> Contact Steve Drury direct at hamlab3@...! The kits are still
> being produced in batches, ordered and received mine back in January

That email address bounced? Could you check it, is there an
alternative address?

David G.

Hill Country REACT
Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.519 / Virus Database: 269.21.8/1338 - Release Date: 21/03/2008 17:52

[Non-text portions of this message have been removed]

Hill Country REACT
Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

Never miss a thing. Make Yahoo your homepage.

[Non-text portions of this message have been removed]

148. Re: [mkars80] Parts list cross over

Yahoo group: mkars80
Date: 2008-03-23 03:55:47 UTC
From: Trailriding_Texas
Topic: 146 Message: 148

Dang, I do not have time to build my MKARS 80, much less try a cross reference!

Just kiddin', should not be hard at all, since most of the components are basic electronics. May have an issue with the, oh dang, the processor thingy for the display! Sorry, been a long day, need to go to bed!

dagmine <davenpam@...> wrote: Is anyone interested in helping me cross over the MKARS80 bill of
materials at http://www.radio-kits.co.uk/ to Mouser.com numbers.

I just ordered two PCBs and hope to cross most of the components over
to a U.S. supplier.

David G.
N1OMO

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Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

[Non-text portions of this message have been removed]

149. Re: [mkars80] Parts list cross over

Yahoo group: mkars80
Date: 2008-03-23 12:40:56 UTC
From: Davenpam
Topic: 146 Message: 149

Actually the PIC was easy, the inductors might need a little
researching. The ones listed have a higher Q and current ability than
the ones I am finding. Anyone know of any reason I couldn't just wind
some cores for those also? And for some reason 1/4 watt 1% metal film
resistors seam to be the least expensive, again ?

dagmine

Trailriding_Texas wrote:
>
> Dang, I do not have time to build my MKARS 80, much less try a cross
> reference!
>
> Just kiddin', should not be hard at all, since most of the components
> are basic electronics. May have an issue with the, oh dang, the
> processor thingy for the display! Sorry, been a long day, need to go
> to bed!
>
> dagmine <davenpam@... <mailto:davenpam%40megalink.net>>
> wrote: Is anyone interested in helping me cross over the MKARS80 bill of
> materials at http://www.radio-kits.co.uk/
> <http://www.radio-kits.co.uk/> to Mouser.com numbers.
>
> I just ordered two PCBs and hope to cross most of the components over
> to a U.S. supplier.
>
> David G.
> N1OMO
>
>
>
>
>
> Hill Country REACT
> Hill Country State Natural Area Partners
> GRA-TRAils
> OOIDA
>
> ---------------------------------
> Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try
> it now.
>
> [Non-text portions of this message have been removed]
>
>

150. Re: [mkars80] Parts list cross over

Yahoo group: mkars80
Date: 2008-03-23 14:19:28 UTC
From: Trailriding_Texas
Topic: 146 Message: 150

The resistors in my kit are 1/8 watt - not 1/4 watt! One would have a tough time fitting 1/4 watt in some places on this PCB.

The inductor listed appears to be discontinued! Oh, the joys of kit building! No cross over found either.

Davenpam <davenpam@...> wrote: Actually the PIC was easy, the inductors might need a little researching. The ones listed have a higher Q and current ability than
the ones I am finding. Anyone know of any reason I couldn't just wind
some cores for those also? And for some reason 1/4 watt 1% metal film
resistors seam to be the least expensive, again ?

dagmine

Hill Country REACT
Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

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[Non-text portions of this message have been removed]

151. Re: [mkars80] Parts list cross over

Yahoo group: mkars80
Date: 2008-03-23 14:21:45 UTC
From: Davenpam
Topic: 146 Message: 151

Ya, I know, I hate to pay more for a smaller size but I might have to.

dagmine

Trailriding_Texas wrote:
>
> The resistors in my kit are 1/8 watt - not 1/4 watt! One would have a
> tough time fitting 1/4 watt in some places on this PCB.
>
> The inductor listed appears to be discontinued! Oh, the joys of kit
> building! No cross over found either.
>
> Davenpam <davenpam@... <mailto:davenpam%40megalink.net>>
> wrote: Actually the PIC was easy, the inductors might need a little
> researching. The ones listed have a higher Q and current ability than
> the ones I am finding. Anyone know of any reason I couldn't just wind
> some cores for those also? And for some reason 1/4 watt 1% metal film
> resistors seam to be the least expensive, again ?
>
> dagmine
>
>
> Hill Country REACT
> Hill Country State Natural Area Partners
> GRA-TRAils
> OOIDA
>
> ---------------------------------
> Never miss a thing. Make Yahoo your homepage.
>
> [Non-text portions of this message have been removed]
>
>

152. Re: [mkars80] Parts list cross over

Yahoo group: mkars80
Date: 2008-03-23 14:39:18 UTC
From: Steve Drury
Topic: 146 Message: 152

Yes the inductors listed are obsolete... I baught a job lot! There isn't anything special here though as they are all in low signal level positions, for the next builds they will probably be purchased from Rapid - www.rapidonline.co.uk . All resistors are 1/8 Watt to keep the radio neat and small, the ones I use are 60 pence per 100 except for the two close tolerance ones used as a divider on the input to the AD convertor for battery voltage measurement.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Davenpam
To: mkars80@...
Sent: Sunday, March 23, 2008 2:21 PM
Subject: Re: [mkars80] Parts list cross over

Ya, I know, I hate to pay more for a smaller size but I might have to.

dagmine

Trailriding_Texas wrote:
>
> The resistors in my kit are 1/8 watt - not 1/4 watt! One would have a
> tough time fitting 1/4 watt in some places on this PCB.
>
> The inductor listed appears to be discontinued! Oh, the joys of kit
> building! No cross over found either.
>
> Davenpam <davenpam@... <mailto:davenpam%40megalink.net>>
> wrote: Actually the PIC was easy, the inductors might need a little
> researching. The ones listed have a higher Q and current ability than
> the ones I am finding. Anyone know of any reason I couldn't just wind
> some cores for those also? And for some reason 1/4 watt 1% metal film
> resistors seam to be the least expensive, again ?
>
> dagmine
>
>
> Hill Country REACT
> Hill Country State Natural Area Partners
> GRA-TRAils
> OOIDA
>
> ---------------------------------
> Never miss a thing. Make Yahoo your homepage.

>
> [Non-text portions of this message have been removed]
>
>

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.519 / Virus Database: 269.21.8/1339 - Release Date: 22/03/2008 16:43

[Non-text portions of this message have been removed]

153. Audio Amp

Yahoo group: mkars80
Date: 2008-04-26 13:31:48 UTC
From: dagmine
Topic: 153 Message: 153

Hello everyone. I have been going through the MKARS80 Schematic block by block figuring out what each one does and how for my own education. The audio amplifier IC1 which is a LM386N-1 has an 1 uF electrolitic capacitor from pin 1 to pin 8 . Does anyone know how this value was selected? The Data sheet shows a 10 uF . I was just wondering.

David Goodrow
N1OMO

154. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-26 17:32:01 UTC
From: Steve Drury
Topic: 153 Message: 154

David,

Putting a capacitor between pins 1 and 8 increases the gain from 20 to 200, by lowering the capacitance from the data sheet value of 10uF to 1uF the low frequency response is tailored to 300Hz or so from the data sheet 20-30Hz.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: dagmine
To: mkars80@...
Sent: Saturday, April 26, 2008 2:31 PM
Subject: [mkars80] Audio Amp

Hello everyone. I have been going through the MKARS80 Schematic block
by block figuring out what each one does and how for my own education.
The audio amplifier IC1 which is a LM386N-1 has an 1 uF electrolitic
capacitor from pin 1 to pin 8 . Does anyone know how this value was
selected? The Data sheet shows a 10 uF . I was just wondering.

David Goodrow
N1OMO

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 269.23.5/1399 - Release Date: 26/04/2008 14:17

[Non-text portions of this message have been removed]

155. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-27 18:35:19 UTC
From: Davenpam
Topic: 153 Message: 155

Steve, thanks for the info. Were can I learn about how the directional control circuits on both sides of the crystal filter work. They are really confusing me on how they operate.

David G.

Steve Drury wrote:
>
> David,
>
> Putting a capacitor between pins 1 and 8 increases the gain from 20 to
> 200, by lowering the capacitance from the data sheet value of 10uF to
> 1uF the low frequency response is tailored to 300Hz or so from the
> data sheet 20-30Hz.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: dagmine
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Saturday, April 26, 2008 2:31 PM
> Subject: [mkars80] Audio Amp
>
> Hello everyone. I have been going through the MKARS80 Schematic block
> by block figuring out what each one does and how for my own education.
> The audio amplifier IC1 which is a LM386N-1 has an 1 uF electrolitic
> capacitor from pin 1 to pin 8 . Does anyone know how this value was
> selected? The Data sheet shows a 10 uF . I was just wondering.
>
> David Goodrow
> N1OMO
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> --
> No virus found in this incoming message.
> Checked by AVG.
> Version: 7.5.524 / Virus Database: 269.23.5/1399 - Release Date:
> 26/04/2008 14:17
>
> [Non-text portions of this message have been removed]

>
>

156. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-27 19:31:55 UTC
From: Steve Drury
Topic: 153 Message: 156

David,

This link is where it all started.....

http://www.phonestack.com/farhan/bitx.html

It is Farhan's home page, he was the designer of the BITX20.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Davenpam
To: mkars80@...
Sent: Sunday, April 27, 2008 7:35 PM
Subject: Re: [mkars80] Audio Amp

Steve, thanks for the info. Were can I learn about how the directional
control circuits on both sides of the crystal filter work. They are
really confusing me on how they operate.

David G.

Steve Drury wrote:
>
> David,
>
> Putting a capacitor between pins 1 and 8 increases the gain from 20 to
> 200, by lowering the capacitance from the data sheet value of 10uF to
> 1uF the low frequency response is tailored to 300Hz or so from the
> data sheet 20-30Hz.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: dagmine
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Saturday, April 26, 2008 2:31 PM
> Subject: [mkars80] Audio Amp
>
> Hello everyone. I have been going through the MKARS80 Schematic block
> by block figuring out what each one does and how for my own education.
> The audio amplifier IC1 which is a LM386N-1 has an 1 uF electrolitic
> capacitor from pin 1 to pin 8 . Does anyone know how this value was

> selected? The Data sheet shows a 10 uF . I was just wondering.
>
> David Goodrow
> N1OMO
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> --
> No virus found in this incoming message.
> Checked by AVG.
> Version: 7.5.524 / Virus Database: 269.23.5/1399 - Release Date:
> 26/04/2008 14:17
>
> [Non-text portions of this message have been removed]
>
>

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release Date: 27/04/2008 09:39

[Non-text portions of this message have been removed]

157. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-27 20:27:34 UTC
From: Davenpam
Topic: 153 Message: 157

I think I get it now. They are not so much "switches" as transistor amps in to and out of the crystals. One on the input and one on the output for receive. One on the input and one one the output for transmit going the opposite way through the crystals. Farhan said they could not get a double balanced mixer to work for them but I believe that is what the MKARS 80 has. Must be that at the lower frequencies there are less problems.

Steve Drury wrote:
>
> David,
>
> This link is where it all started.....
>
> http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
>
> It is Farhan's home page, he was the designer of the BITX20.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Davenpam
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Sunday, April 27, 2008 7:35 PM
> Subject: Re: [mkars80] Audio Amp
>
> Steve, thanks for the info. Were can I learn about how the directional
> control circuits on both sides of the crystal filter work. They are
> really confusing me on how they operate.
>
> David G.
>
> Steve Drury wrote:
> >
> > David,
> >
> > Putting a capacitor between pins 1 and 8 increases the gain from 20 to
> > 200, by lowering the capacitance from the data sheet value of 10uF to
> > 1uF the low frequency response is tailored to 300Hz or so from the
> > data sheet 20-30Hz.
> >
> > Steve G6ALU
> >

> > My web site: www.radio-kits.co.uk
> >
> > ----- Original Message -----
> > From: dagmine
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Saturday, April 26, 2008 2:31 PM
> > Subject: [mkars80] Audio Amp
> >
> > Hello everyone. I have been going through the MKARS80 Schematic block
> > by block figuring out what each one does and how for my own education.
> > The audio amplifier IC1 which is a LM386N-1 has an 1 uF electrolitic
> > capacitor from pin 1 to pin 8 . Does anyone know how this value was
> > selected? The Data sheet shows a 10 uF . I was just wondering.
> >
> > David Goodrow
> > N1OMO
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> > --
> > No virus found in this incoming message.
> > Checked by AVG.
> > Version: 7.5.524 / Virus Database: 269.23.5/1399 - Release Date:
> > 26/04/2008 14:17
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> --
> No virus found in this incoming message.
> Checked by AVG.
> Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release Date:
> 27/04/2008 09:39
>
> [Non-text portions of this message have been removed]
>
>

158. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-27 20:59:29 UTC
From: Steve Drury
Topic: 153 Message: 158

I think the section you refer to is Asshar talking about input / ouput matching of a double ballanced mixer.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Davenpam
To: mkars80@...
Sent: Sunday, April 27, 2008 9:27 PM
Subject: Re: [mkars80] Audio Amp

I think I get it now. They are not so much "switches" as transistor amps
in to and out of the crystals. One on the input and one on the output
for receive. One on the input and one one the output for transmit going
the opposite way through the crystals. Farhan said they could not get a
double balanced mixer to work for them but I believe that is what the
MKARS 80 has. Must be that at the lower frequencies there are less problems.

Steve Drury wrote:
>
> David,
>
> This link is where it all started.....
>
> http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
>
> It is Farhan's home page, he was the designer of the BITX20.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Davenpam
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Sunday, April 27, 2008 7:35 PM
> Subject: Re: [mkars80] Audio Amp
>
> Steve, thanks for the info. Were can I learn about how the directional
> control circuits on both sides of the crystal filter work. They are
> really confusing me on how they operate.
>
> David G.

>
> Steve Drury wrote:
> >
> > David,
> >
> > Putting a capacitor between pins 1 and 8 increases the gain from 20 to
> > 200, by lowering the capacitance from the data sheet value of 10uF to
> > 1uF the low frequency response is tailored to 300Hz or so from the
> > data sheet 20-30Hz.
> >
> > Steve G6ALU
> >
> > My web site: www.radio-kits.co.uk
> >
> > ----- Original Message -----
> > From: dagmine
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Saturday, April 26, 2008 2:31 PM
> > Subject: [mkars80] Audio Amp
> >
> > Hello everyone. I have been going through the MKARS80 Schematic block
> > by block figuring out what each one does and how for my own education.
> > The audio amplifier IC1 which is a LM386N-1 has an 1 uF electrolitic
> > capacitor from pin 1 to pin 8 . Does anyone know how this value was
> > selected? The Data sheet shows a 10 uF . I was just wondering.
> >
> > David Goodrow
> > N1OMO
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> > --
> > No virus found in this incoming message.
> > Checked by AVG.
> > Version: 7.5.524 / Virus Database: 269.23.5/1399 - Release Date:
> > 26/04/2008 14:17
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> --
> No virus found in this incoming message.

> Checked by AVG.
> Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release Date:
> 27/04/2008 09:39
>
> [Non-text portions of this message have been removed]
>
>

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release Date: 27/04/2008 09:39

[Non-text portions of this message have been removed]

159. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-27 21:28:20 UTC
From: Davenpam
Topic: 153 Message: 159

Below is the part of the text I am refering to. It was the 2003 version, I just looked and the 2004 version uses a double balanced mixer the same place the MKARS 80 does and a two diode mixer for the BFO , again same as the MKARS 80

I/t should be noted here that we first tried a double balanced diode ring mixer at the front-end. It has a number of spurious responses that literally made it impossible to use the receiver. We tried to properly terminate the diode ring mixer by inserting attenuators between the mixer and the Ladder filter?s pre-amp. It didn?t cure the problem. When we changed to the FET mixer, the noise figure improved, the receiver?s dynamic range, while unmeasured, was never found lacking in the last one month of extensive usage at VU2PEP./

Steve Drury wrote:
>
> I think the section you refer to is Asshar talking about input / ouput
> matching of a double ballanced mixer.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Davenpam
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Sunday, April 27, 2008 9:27 PM
> Subject: Re: [mkars80] Audio Amp
>
> I think I get it now. They are not so much "switches" as transistor amps
> in to and out of the crystals. One on the input and one on the output
> for receive. One on the input and one one the output for transmit going
> the opposite way through the crystals. Farhan said they could not get a
> double balanced mixer to work for them but I believe that is what the
> MKARS 80 has. Must be that at the lower frequencies there are less
> problems.
>
> Steve Drury wrote:
> >
> > David,
> >
> > This link is where it all started.....
> >
> > http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>

> > <http://www.phonestack.com/farhan/bitx.html
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> > It is Farhan's home page, he was the designer of the BITX20.
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> > Steve G6ALU
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> > My web site: www.radio-kits.co.uk
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> > ----- Original Message -----
> > From: Davenpam
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Sunday, April 27, 2008 7:35 PM
> > Subject: Re: [mkars80] Audio Amp
> >
> > Steve, thanks for the info. Were can I learn about how the directional
> > control circuits on both sides of the crystal filter work. They are
> > really confusing me on how they operate.
> >
> > David G.
> >
> > Steve Drury wrote:
> > >
> > > David,
> > >
> > > Putting a capacitor between pins 1 and 8 increases the gain from 20 to
> > > 200, by lowering the capacitance from the data sheet value of 10uF to
> > > 1uF the low frequency response is tailored to 300Hz or so from the
> > > data sheet 20-30Hz.
> > >
> > > Steve G6ALU
> > >
> > > My web site: www.radio-kits.co.uk
> > >
> > > ----- Original Message -----
> > > From: dagmine
> > > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk>
> > > Sent: Saturday, April 26, 2008 2:31 PM
> > > Subject: [mkars80] Audio Amp
> > >
> > > Hello everyone. I have been going through the MKARS80 Schematic block
> > > by block figuring out what each one does and how for my own education.
> > > The audio amplifier IC1 which is a LM386N-1 has an 1 uF electrolitic
> > > capacitor from pin 1 to pin 8 . Does anyone know how this value was
> > > selected? The Data sheet shows a 10 uF . I was just wondering.
> > >
> > > David Goodrow

> > > N1OMO
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> > > --
> > > No virus found in this incoming message.
> > > Checked by AVG.
> > > Version: 7.5.524 / Virus Database: 269.23.5/1399 - Release Date:
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> [Non-text portions of this message have been removed]
>
>

160. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-28 06:58:42 UTC
From: g6alu@tiscali.co.uk
Topic: 153 Message: 160

Dave,

I've not noted any spurious responses but remember the original was designed for 20M and the MKARS80 was designed for 80M. Unwanted responses are also related to IF frequency used.

Steve G6ALU

>----Original Message----
>From: davenpam@...
>Date: 27/04/2008 22:28
>To: <mkars80@yahoogroups.co.uk>
>Subj: Re: [mkars80] Audio Amp
>
>Below is the part of the text I am refering to. It was the 2003 version,
>I just looked and the 2004 version uses a double balanced mixer the same
>place the MKARS 80 does and a two diode mixer for the BFO , again same
>as the MKARS 80
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>I/t should be noted here that we first tried a double balanced diode
>ring mixer at the front-end. It has a number of spurious responses that
>literally made it impossible to use the receiver. We tried to properly
>terminate the diode ring mixer by inserting attenuators between the
>mixer and the Ladder filter?s pre-amp. It didn?t cure the problem. When
>we changed to the FET mixer, the noise figure improved, the receiver?s
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>> > It is Farhan's home page, he was the designer of the BITX20.
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>> > Steve G6ALU
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>> > > To: mkars80@... <mailto:mkars80%40yahoogroups.co.
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_____
Earn up to £150 by recycling your old mobile phone - http://www.tiscali.co.uk/recycle

161. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-28 09:52:09 UTC
From: Davenpam
Topic: 153 Message: 161

Again thanks for the info. I am not saying there is anything wrong with the design. Quite the opposite, I like it so much I am trying to fully understand it so I can see what else I can do with it. Maybe change the IF to 9Mhz and do a 80 / 20 Meter Dual Band . An 80 / 40 is really what I want but that seams to be a little harder to do.

Thanks again

David G.

g6alu@... wrote:
>
> Dave,
>
> I've not noted any spurious responses but remember the original was
> designed for 20M and the MKARS80 was designed for 80M. Unwanted
> responses are also related to IF frequency used.
>
> Steve G6ALU
>
> >----Original Message----
> >From: davenpam@... <mailto:davenpam%40megalink.net>
> >Date: 27/04/2008 22:28
> >To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> >Subj: Re: [mkars80] Audio Amp
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> >Below is the part of the text I am refering to. It was the 2003
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> >> Steve G6ALU
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> >> My web site: www.radio-kits.co.uk
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> >> From: Davenpam
> >> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
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> >> >
> >> > Steve G6ALU

> >> >
> >> > My web site: www.radio-kits.co.uk
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> >> > ----- Original Message -----
> >> > From: Davenpam
> >> > To: mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk> <mailto:mkars80%40yahoogroups.co.
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> >> > > Steve G6ALU
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> >> > > My web site: www.radio-kits.co.uk
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> >> > > ----- Original Message -----
> >> > > From: dagmine
> >> > > To: mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk> <mailto:mkars80%40yahoogroups.co.
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>
> _________________________________
> Earn up to £150 by recycling your old mobile phone -
> http://www.tiscali.co.uk/recycle <http://www.tiscali.co.uk/recycle>
>
>

162. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-28 12:49:45 UTC
From: g6alu@tiscali.co.uk
Topic: 153 Message: 162

I wasn't being defensive David just matter of fact! What ever you plan
work out the interfering frequencies and unwanted mixing products
before you melt solder!

Steve G6ALU

>----Original Message----
>From: davenpam@megalink.net
>Date: 28/04/2008 10:52
>To: <mkars80@...>
>Subj: Re: [mkars80] Audio Amp
>
>Again thanks for the info. I am not saying there is anything wrong
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>the design. Quite the opposite, I like it so much I am trying to
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>IF to 9Mhz and do a 80 / 20 Meter Dual Band . An 80 / 40 is really
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>> >> > >
>> >> > > Yahoo! Groups Links
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>> >> > No virus found in this incoming message.
>> >> > Checked by AVG.
>> >> > Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release
Date:
>> >> > 27/04/2008 09:39
>> >> >
>> >> > [Non-text portions of this message have been removed]
>> >> >
>> >> >
>> >>
>> >> ------------------------------------
>> >>
>> >> Yahoo! Groups Links
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>> >>
>> >>
>> >
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>> >Yahoo! Groups Links
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>> >
>> >
>>
>> _____________________________
>> Earn up to £150 by recycling your old mobile phone -

>> http://www.tiscali.co.uk/recycle <http://www.tiscali.co.uk/recycle>
>>
>>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>
>

____
What do kids get up to online? Find out - http://www.tiscali.co.uk/protection

163. Re: [mkars80] Audio Amp

Yahoo group: mkars80
Date: 2008-04-28 13:52:11 UTC
From: Trailriding_Texas
Topic: 153 Message: 163

I like your thought of an 80/40 dual band! We use those for EmComm Ops and it would be a great little unit to have! Have had my MKARS80 since just after the first of the year, and just barely started populating the board! Work and Ranch has been keeping me busy! I am new to all this, so the theories and practice are coming slowly, but I am learning!

Thanks all!

Louis

Davenpam <davenpam@...> wrote: Again thanks for the info. I am not saying there is anything wrong with
the design. Quite the opposite, I like it so much I am trying to fully
understand it so I can see what else I can do with it. Maybe change the
IF to 9Mhz and do a 80 / 20 Meter Dual Band . An 80 / 40 is really what
I want but that seams to be a little harder to do.

Thanks again

David G.

g6alu@... wrote:
>
> Dave,
>
> I've not noted any spurious responses but remember the original was
> designed for 20M and the MKARS80 was designed for 80M. Unwanted
> responses are also related to IF frequency used.
>
> Steve G6ALU
>
> >----Original Message----
> >From: davenpam@megalink.net <mailto:davenpam%40megalink.net>
> >Date: 27/04/2008 22:28
> >To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> >Subj: Re: [mkars80] Audio Amp
> >
> >Below is the part of the text I am refering to. It was the 2003
> version,
> >I just looked and the 2004 version uses a double balanced mixer the
> same
> >place the MKARS 80 does and a two diode mixer for the BFO , again
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> >I/t should be noted here that we first tried a double balanced diode
> >ring mixer at the front-end. It has a number of spurious responses

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> >literally made it impossible to use the receiver. We tried to
> properly
> >terminate the diode ring mixer by inserting attenuators between the
> >mixer and the Ladder filterï¿½s pre-amp. It didnï¿½t cure the problem.
> When
> >we changed to the FET mixer, the noise figure improved, the
> receiverï¿½s
> >dynamic range, while unmeasured, was never found lacking in the last
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> >month of extensive usage at VU2PEP./
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> >>
> >> I think the section you refer to is Asshar talking about input /
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> >> matching of a double ballanced mixer.
> >>
> >> Steve G6ALU
> >>
> >> My web site: www.radio-kits.co.uk
> >>
> >> ----- Original Message -----
> >> From: Davenpam
> >> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> >> Sent: Sunday, April 27, 2008 9:27 PM
> >> Subject: Re: [mkars80] Audio Amp
> >>
> >> I think I get it now. They are not so much "switches" as transistor
> amps
> >> in to and out of the crystals. One on the input and one on the
> output
> >> for receive. One on the input and one one the output for transmit
> going
> >> the opposite way through the crystals. Farhan said they could not
> get a
> >> double balanced mixer to work for them but I believe that is what
> the
> >> MKARS 80 has. Must be that at the lower frequencies there are less
> >> problems.
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> >> Steve Drury wrote:
> >> >
> >> > David,
> >> >
> >> > This link is where it all started.....
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> <http://www.phonestack.com/farhan/bitx.html>>>
> >> >
> >> > It is Farhan's home page, he was the designer of the BITX20.
> >> >
> >> > Steve G6ALU
> >> >
> >> > My web site: www.radio-kits.co.uk
> >> >
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> >> > From: Davenpam
> >> > To: mkars80@...
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> >> > > 1uF the low frequency response is tailored to 300Hz or so from
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> >> > > data sheet 20-30Hz.
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> >> > > Steve G6ALU
> >> > >
> >> > > My web site: www.radio-kits.co.uk
> >> > >
> >> > > ----- Original Message -----
> >> > > From: dagmine
> >> > > To: mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk> <mailto:mkars80%40yahoogroups.co.

> uk>
> >> <mailto:mkars80%40yahoogroups.co.uk>
> >> > <mailto:mkars80%40yahoogroups.co.uk>
> >> > > Sent: Saturday, April 26, 2008 2:31 PM
> >> > > Subject: [mkars80] Audio Amp
> >> > >
> >> > > Hello everyone. I have been going through the MKARS80 Schematic
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> >> > > by block figuring out what each one does and how for my own
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> >> > > The audio amplifier IC1 which is a LM386N-1 has an 1 uF
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> >> > > capacitor from pin 1 to pin 8 . Does anyone know how this value
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> >> > > David Goodrow
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> >> > > 26/04/2008 14:17
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> Earn up to Â£150 by recycling your old mobile phone -
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>
>

Hill Country REACT
Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

[Non-text portions of this message have been removed]

164. I like your thought of an 80/40 dual band! We use those for EmComm Ops

Yahoo group: mkars80
Date: 2008-04-28 21:17:28 UTC
From: Davenpam
Topic: 153 Message: 164

So lets start designing. I have seen an article on one project that was 80/40 but they used a 1.7 Mhz IF. not sure if thats the way to go or to have dual IFs at a higher frequency or dual VFOs. almost thinking dual IF, as in dual crystal filters. I should really finish my MKARS 80 first. It would be all done if I would stop taking it apart and changing things. Just added a backlit display, looks real nice with the light on. Tried to do varactor tuning but it was very unstable. Not sure if it was my varactor or the 10 turn potentiometer or both. I may try again one tuning knob would make it fit a lot better in my case.

David G.

Trailriding_Texas wrote:
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> and it would be a great little unit to have! Have had my MKARS80 since
> just after the first of the year, and just barely started populating
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> Thanks all!
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> Davenpam <davenpam@... <mailto:davenpam%40megalink.net>>
> wrote: Again thanks for the info. I am not saying there is anything
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> David G.
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> g6alu@... <mailto:g6alu%40tiscali.co.uk> wrote:
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> > Steve G6ALU

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> > >----Original Message----
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> <mailto:davenpam%40megalink.net>
> > >Date: 27/04/2008 22:28
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> > Earn up to £150 by recycling your old mobile phone -
> > http://www.tiscali.co.uk/recycle <http://www.tiscali.co.uk/recycle>
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> >
> >
>
>
>
>
> Hill Country REACT
> Hill Country State Natural Area Partners
> GRA-TRAils
> OOIDA
>
> ---
> Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try
> it now.
>
> [Non-text portions of this message have been removed]
>
>

165. Re: [mkars80] I like your thought of an 80/40 dual band! We use those for EmComm Ops

Yahoo group: mkars80
Date: 2008-04-28 23:04:04 UTC
From: carless7@tiscali.co.uk
Topic: 153 Message: 165

I made it as steve advised, and fitted it in the case provided, it works great, maybe the addition of a slow motion drive may improve it, i also included an internal speaker, the next mod maybe an internal battery pack, but apart from that i think its a great little rig.

Gordon M3VVH

----Original Message----
From: davenpam@...
Date: 28/04/2008 22:17
To: <mkars80@...>
Subj: [mkars80] I like your thought of an 80/40 dual band! We use those for EmComm Ops

So lets start designing. I have seen an article on one project that was 80/40 but they used a 1.7 Mhz IF. not sure if thats the way to go or to have dual IFs at a higher frequency or dual VFOs. almost thinking dual IF, as in dual crystal filters. I should really finish my MKARS 80 first. It would be all done if I would stop taking it apart and changing things. Just added a backlit display, looks real nice with the light on. Tried to do varactor tuning but it was very unstable. Not sure if it was my varactor or the 10 turn potentiometer or both. I may try again one tuning knob would make it fit a lot better in my case.

David G.

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> > >> <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>>>
> > >> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>>
> > >> <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>>>>
> > >> >
> > >> > It is Farhan's home page, he was the designer of the BITX20.
> > >> >

> > >> > Steve G6ALU
> > >> >
> > >> > My web site: www.radio-kits.co.uk
> > >> >
> > >> > ----- Original Message -----
> > >> > From: Davenpam
> > >> > To: mkars80@....uk <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk> <mailto:mkars80%40yahoogroups.co.
> > uk>
> > >> <mailto:mkars80%40yahoogroups.co.uk>
> > >> > Sent: Sunday, April 27, 2008 7:35 PM
> > >> > Subject: Re: [mkars80] Audio Amp
> > >> >
> > >> > Steve, thanks for the info. Were can I learn about how the
> > directional
> > >> > control circuits on both sides of the crystal filter work. They
> > are
> > >> > really confusing me on how they operate.
> > >> >
> > >> > David G.
> > >> >
> > >> > Steve Drury wrote:
> > >> > >
> > >> > > David,
> > >> > >
> > >> > > Putting a capacitor between pins 1 and 8 increases the gain
> > from 20 to
> > >> > > 200, by lowering the capacitance from the data sheet value of
> > 10uF to
> > >> > > 1uF the low frequency response is tailored to 300Hz or so from
> > the
> > >> > > data sheet 20-30Hz.
> > >> > >
> > >> > > Steve G6ALU
> > >> > >
> > >> > > My web site: www.radio-kits.co.uk
> > >> > >
> > >> > > ----- Original Message -----
> > >> > > From: dagmine
> > >> > > To: mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk> <mailto:mkars80%40yahoogroups.co.
> > uk>
> > >> <mailto:mkars80%40yahoogroups.co.uk>
> > >> > <mailto:mkars80%40yahoogroups.co.uk>
> > >> > > Sent: Saturday, April 26, 2008 2:31 PM
> > >> > > Subject: [mkars80] Audio Amp
> > >> > >
> > >> > > Hello everyone. I have been going through the MKARS80 Schematic
> > block

> > >> > > by block figuring out what each one does and how for my own
> > education.
> > >> > > The audio amplifier IC1 which is a LM386N-1 has an 1 uF
> > electrolitic
> > >> > > capacitor from pin 1 to pin 8 . Does anyone know how this value
> > was
> > >> > > selected? The Data sheet shows a 10 uF . I was just wondering.
> > >> > >
> > >> > > David Goodrow
> > >> > > N1OMO
> > >> > >
> > >> > > ------------------------------------
> > >> > >
> > >> > > Yahoo! Groups Links
> > >> > >
> > >> > > --
> > >> > > No virus found in this incoming message.
> > >> > > Checked by AVG.
> > >> > > Version: 7.5.524 / Virus Database: 269.23.5/1399 - Release
> > Date:
> > >> > > 26/04/2008 14:17
> > >> > >
> > >> > > [Non-text portions of this message have been removed]
> > >> > >
> > >> > >
> > >> >
> > >> > ------------------------------------
> > >> >
> > >> > Yahoo! Groups Links
> > >> >
> > >> > --
> > >> > No virus found in this incoming message.
> > >> > Checked by AVG.
> > >> > Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release Date:
> > >> > 27/04/2008 09:39
> > >> >
> > >> > [Non-text portions of this message have been removed]
> > >> >
> > >> >
> > >>
> > >> ------------------------------------
> > >>
> > >> Yahoo! Groups Links
> > >>
> > >> --
> > >> No virus found in this incoming message.
> > >> Checked by AVG.
> > >> Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release Date:
> > >> 27/04/2008 09:39
> > >>

> > >> [Non-text portions of this message have been removed]
> > >>
> > >>
> > >
> > >----------
> > >
> > >Yahoo! Groups Links
> > >
> > >
> > >
> > >
> >
> > _____
> > Earn up to Â£150 by recycling your old mobile phone -
> > http://www.tiscali.co.uk/recycle <http://www.tiscali.co.uk/recycle>
> <http://www.tiscali.co.uk/recycle <http://www.tiscali.co.uk/recycle>>
> >
> >
>
>
>
>
> Hill Country REACT
> Hill Country State Natural Area Partners
> GRA-TRAils
> OOIDA
>
> ---
> Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try
> it now.
>
> [Non-text portions of this message have been removed]
>
>

_____
What do kids get up to online? Find out - http://www.tiscali.co.uk/protection

[Non-text portions of this message have been removed]

166. Re: [mkars80] I like your thought of an 80/40 dual band! We use those for EmComm Ops

Yahoo group: mkars80
Date: 2008-04-29 01:22:11 UTC
From: Trailriding_Texas
Topic: 153 Message: 166

I would love too, but I cannot even find the time right now to finish my original MKARS80, much less add a second band to it! Maybe come winter it would be a good project to tackle!

Davenpam <davenpam@...> wrote: So lets start designing. I have seen an article on one project that was
80/40 but they used a 1.7 Mhz IF. not sure if thats the way to go or to
have dual IFs at a higher frequency or dual VFOs. almost thinking dual
IF, as in dual crystal filters. I should really finish my MKARS 80
first. It would be all done if I would stop taking it apart and changing
things. Just added a backlit display, looks real nice with the light on.
Tried to do varactor tuning but it was very unstable. Not sure if it was
my varactor or the 10 turn potentiometer or both. I may try again one
tuning knob would make it fit a lot better in my case.

David G.

Trailriding_Texas wrote:
>
> I like your thought of an 80/40 dual band! We use those for EmComm Ops
> and it would be a great little unit to have! Have had my MKARS80 since
> just after the first of the year, and just barely started populating
> the board! Work and Ranch has been keeping me busy! I am new to all
> this, so the theories and practice are coming slowly, but I am learning!
>
> Thanks all!
>
> Louis
>
> Davenpam <davenpam@... <mailto:davenpam%40megalink.net>>
> wrote: Again thanks for the info. I am not saying there is anything
> wrong with
> the design. Quite the opposite, I like it so much I am trying to fully
> understand it so I can see what else I can do with it. Maybe change the
> IF to 9Mhz and do a 80 / 20 Meter Dual Band . An 80 / 40 is really what
> I want but that seams to be a little harder to do.
>
> Thanks again
>
> David G.
>
> g6alu@... <mailto:g6alu%40tiscali.co.uk> wrote:
> >
> > Dave,
> >

> > I've not noted any spurious responses but remember the original was
> > designed for 20M and the MKARS80 was designed for 80M. Unwanted
> > responses are also related to IF frequency used.
> >
> > Steve G6ALU
> >
> > >----Original Message----
> > >From: davenpam@megalink.net <mailto:davenpam%40megalink.net>
> <mailto:davenpam%40megalink.net>
> > >Date: 27/04/2008 22:28
> > >To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>>
> > >Subj: Re: [mkars80] Audio Amp
> > >
> > >Below is the part of the text I am refering to. It was the 2003
> > version,
> > >I just looked and the 2004 version uses a double balanced mixer the
> > same
> > >place the MKARS 80 does and a two diode mixer for the BFO , again
> > same
> > >as the MKARS 80
> > >
> > >I/t should be noted here that we first tried a double balanced diode
> > >ring mixer at the front-end. It has a number of spurious responses
> > that
> > >literally made it impossible to use the receiver. We tried to
> > properly
> > >terminate the diode ring mixer by inserting attenuators between the
> > >mixer and the Ladder filterï¿½s pre-amp. It didnï¿½t cure the problem.
> > When
> > >we changed to the FET mixer, the noise figure improved, the
> > receiverï¿½s
> > >dynamic range, while unmeasured, was never found lacking in the last
> > one
> > >month of extensive usage at VU2PEP./
> > >
> > >Steve Drury wrote:
> > >>
> > >> I think the section you refer to is Asshar talking about input /
> > ouput
> > >> matching of a double ballanced mixer.
> > >>
> > >> Steve G6ALU
> > >>
> > >> My web site: www.radio-kits.co.uk
> > >>
> > >> ----- Original Message -----
> > >> From: Davenpam
> > >> To: mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk> <mailto:mkars80%40yahoogroups.co.uk>

> > <mailto:mkars80%40yahoogroups.co.uk>
> > >> Sent: Sunday, April 27, 2008 9:27 PM
> > >> Subject: Re: [mkars80] Audio Amp
> > >>
> > >> I think I get it now. They are not so much "switches" as transistor
> > amps
> > >> in to and out of the crystals. One on the input and one on the
> > output
> > >> for receive. One on the input and one one the output for transmit
> > going
> > >> the opposite way through the crystals. Farhan said they could not
> > get a
> > >> double balanced mixer to work for them but I believe that is what
> > the
> > >> MKARS 80 has. Must be that at the lower frequencies there are less
> > >> problems.
> > >>
> > >> Steve Drury wrote:
> > >> >
> > >> > David,
> > >> >
> > >> > This link is where it all started.....
> > >> >
> > >> > http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>>
> > >> <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>>>
> > >> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>>
> > >> <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>
> > <http://www.phonestack.com/farhan/bitx.html
> <http://www.phonestack.com/farhan/bitx.html>>>>
> > >> >
> > >> > It is Farhan's home page, he was the designer of the BITX20.
> > >> >
> > >> > Steve G6ALU
> > >> >
> > >> > My web site: www.radio-kits.co.uk
> > >> >
> > >> > ----- Original Message -----
> > >> > From: Davenpam
> > >> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk> <mailto:mkars80%40yahoogroups.co.

> > uk>
> > >> <mailto:mkars80%40yahoogroups.co.uk>
> > >> > Sent: Sunday, April 27, 2008 7:35 PM
> > >> > Subject: Re: [mkars80] Audio Amp
> > >> >
> > >> > Steve, thanks for the info. Were can I learn about how the
> > directional
> > >> > control circuits on both sides of the crystal filter work. They
> > are
> > >> > really confusing me on how they operate.
> > >> >
> > >> > David G.
> > >> >
> > >> > Steve Drury wrote:
> > >> > >
> > >> > > David,
> > >> > >
> > >> > > Putting a capacitor between pins 1 and 8 increases the gain
> > from 20 to
> > >> > > 200, by lowering the capacitance from the data sheet value of
> > 10uF to
> > >> > > 1uF the low frequency response is tailored to 300Hz or so from
> > the
> > >> > > data sheet 20-30Hz.
> > >> > >
> > >> > > Steve G6ALU
> > >> > >
> > >> > > My web site: www.radio-kits.co.uk
> > >> > >
> > >> > > ----- Original Message -----
> > >> > > From: dagmine
> > >> > > To: mkars80@....uk
> <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk> <mailto:mkars80%40yahoogroups.co.
> > uk>
> > >> <mailto:mkars80%40yahoogroups.co.uk>
> > >> > <mailto:mkars80%40yahoogroups.co.uk>
> > >> > > Sent: Saturday, April 26, 2008 2:31 PM
> > >> > > Subject: [mkars80] Audio Amp
> > >> > >
> > >> > > Hello everyone. I have been going through the MKARS80 Schematic
> > block
> > >> > > by block figuring out what each one does and how for my own
> > education.
> > >> > > The audio amplifier IC1 which is a LM386N-1 has an 1 uF
> > electrolitic
> > >> > > capacitor from pin 1 to pin 8 . Does anyone know how this value
> > was
> > >> > > selected? The Data sheet shows a 10 uF . I was just wondering.
> > >> > >

> > >> > > David Goodrow
> > >> > > N1OMO
> > >> > >
> > >> > > ------------------------------------
> > >> > >
> > >> > > Yahoo! Groups Links
> > >> > >
> > >> > > --
> > >> > > No virus found in this incoming message.
> > >> > > Checked by AVG.
> > >> > > Version: 7.5.524 / Virus Database: 269.23.5/1399 - Release
> > Date:
> > >> > > 26/04/2008 14:17
> > >> > >
> > >> > > [Non-text portions of this message have been removed]
> > >> > >
> > >> > >
> > >> >
> > >> > ------------------------------------
> > >> >
> > >> > Yahoo! Groups Links
> > >> >
> > >> > --
> > >> > No virus found in this incoming message.
> > >> > Checked by AVG.
> > >> > Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release Date:
> > >> > 27/04/2008 09:39
> > >> >
> > >> > [Non-text portions of this message have been removed]
> > >> >
> > >> >
> > >>
> > >> ------------------------------------
> > >>
> > >> Yahoo! Groups Links
> > >>
> > >> --
> > >> No virus found in this incoming message.
> > >> Checked by AVG.
> > >> Version: 7.5.524 / Virus Database: 269.23.5/1400 - Release Date:
> > >> 27/04/2008 09:39
> > >>
> > >> [Non-text portions of this message have been removed]
> > >>
> > >>
> > >
> > >------------------------------------
> > >
> > >Yahoo! Groups Links
> > >

> > >
> > >
> > >
> >
> > _____
> > Earn up to Â£150 by recycling your old mobile phone -
> > http://www.tiscali.co.uk/recycle <http://www.tiscali.co.uk/recycle>
> <http://www.tiscali.co.uk/recycle <http://www.tiscali.co.uk/recycle>>
> >
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>
>
> Hill Country REACT
> Hill Country State Natural Area Partners
> GRA-TRAils
> OOIDA
>
> ---
> Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try
> it now.
>
> [Non-text portions of this message have been removed]
>
>

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Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

[Non-text portions of this message have been removed]

167. MKARS80 on-line ;)

Yahoo group: mkars80
Date: 2008-04-30 16:16:48 UTC
From: Chris Roselaar
Topic: 167 Message: 167

Hi All,
After having assembled my MKARS80 a week or two ago the RX seamed very deaf; hardly any audio on the connected external speaker (originating from an old CB-rig). At first I suspected soldering-errors around the trifilar wound transformers. I took the them all out, carefully re-soldered the ends of the wires and put them back in again - no change however:(
Today I plugged my PC's headset into the MKARS80 audio jack. To my surprise: bright and sufficiently loud audio?! Took me another couple of minutes to attach an electret microphone and a PTT switch.
And guess what? The first QSO's on 3.630 have already been made.
Reports mention very clear and easy-to-copy audio.
I like it- this is fun!
73's Christiaan PA3FUN

168. Re: [mkars80] MKARS80 on-line ;)

Yahoo group: mkars80
Date: 2008-04-30 17:36:59 UTC
From: Steve Drury
Topic: 167 Message: 168

Christiaan,

I'm wondering if your speaker is faulty or if you have a problem around the LM386, believe me the radio has plenty of volume on large signals!

Check the voltage on pin 6 of the LM386 IC with the 8 Ohm speaker connected, it should be 10V or so.

Best of luck,
Steve

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Chris Roselaar
To: mkars80@...
Sent: Wednesday, April 30, 2008 5:16 PM
Subject: [mkars80] MKARS80 on-line ;)

Hi All,
After having assembled my MKARS80 a week or two ago the RX seamed very deaf; hardly any audio on the connected external speaker (originating from an old CB-rig). At first I suspected soldering-errors around the trifilar wound transformers. I took the them all out, carefully re-soldered the ends of the wires and put them back in again - no change however:(
Today I plugged my PC's headset into the MKARS80 audio jack. To my surprise: bright and sufficiently loud audio?! Took me another couple of minutes to attach an electret microphone and a PTT switch.
And guess what? The first QSO's on 3.630 have already been made.
Reports mention very clear and easy-to-copy audio.
I like it- this is fun!
73's Christiaan PA3FUN

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 269.23.6/1403 - Release Date: 29/04/2008 07:26

[Non-text portions of this message have been removed]

169. Re: MKARS80 on-line ;)

Yahoo group: mkars80
Date: 2008-05-01 06:43:47 UTC
From: Chris Roselaar
Topic: 167 Message: 169

Steve,

You're a genius. As I just found out, the conus of the speaker was
stuck.
I just connected another speaker and it works UFB.
Never thought a mechanical issue was the cause of the problem....

Tonight lots of other Dutch stations on 3630 showed interest in this
fine radio.
I would not be surprised if more people from around here would contact
you to see if You've got a kit for them as well ;)

73's Chris PA3FUN

170. Hi All

Yahoo group: mkars80
Date: 2008-05-19 19:33:05 UTC
From: Dave
Topic: 170 Message: 170

Hi All,

I am awaiting my kit from G6ALU (Steve) but I have been looking thru the constuction manual and it talks about pack 1,2 et al. Should I then construct the radio using the packs as the reference.

i.e. Mount pack 1 first then onto 2 etc.

Regards Dave

G1XAZ GQRP 11142

ps. I have low power black boxes this a new venture for me I have also ordered the Kendricks BitX20 and for that Cumbrian designs Digital Display (Still waiting for the Kendricks kit)

PPS. Also having my eyes tested next week..... Perhaps it should be my Brain. (Chuckle mode on)

171. Re: [mkars80] Hi All

Yahoo group: mkars80
Date: 2008-05-19 19:40:51 UTC
From: Trailriding_Texas
Topic: 170 Message: 171

Yes, the manual is set-up as such, to do one packet at a time! I am about half way through the construction of mine! Not sure the implications of doing out of order, but I am sure the designers had a reason for packaging as such!

I am a rookie at this, and have enjoyed it so far!

Louis

Dave <g1xaz@...> wrote: Hi All,

I am awaiting my kit from G6ALU (Steve) but I have been looking thru
the constuction manual and it talks about pack 1,2 et al. Should I
then construct the radio using the packs as the reference.

i.e. Mount pack 1 first then onto 2 etc.

Regards Dave

G1XAZ GQRP 11142

ps. I have low power black boxes this a new venture for me I have also
ordered the Kendricks BitX20 and for that Cumbrian designs Digital
Display (Still waiting for the Kendricks kit)

PPS. Also having my eyes tested next week..... Perhaps it should be
my Brain. (Chuckle mode on)

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OOIDA

[Non-text portions of this message have been removed]

172. Re: [mkars80] Hi All

Yahoo group: mkars80
Date: 2008-05-19 19:51:47 UTC
From: G1XAZ - PO
Topic: 170 Message: 172

Hi Louis,

In the UK I shropshire RAYNET events organisor... noting the end of you email.

To be honest this is only my secons build yourself project my first was many years ago when I started into radio so about 1973.

That was a direct conversion reciever it took me longer to find out where I had screwed up than build the flippin thing.

Nice to know someone else is out there thats just starting

73 Dave G1XAZ

----- Original Message -----
From: Trailriding_Texas
To: mkars80@...
Sent: Monday, May 19, 2008 8:40 PM
Subject: Re: [mkars80] Hi All

Yes, the manual is set-up as such, to do one packet at a time! I am about half way through the construction of mine! Not sure the implications of doing out of order, but I am sure the designers had a reason for packaging as such!

I am a rookie at this, and have enjoyed it so far!

Louis

Dave <g1xaz@...> wrote: Hi All,

I am awaiting my kit from G6ALU (Steve) but I have been looking thru the constuction manual and it talks about pack 1,2 et al. Should I then construct the radio using the packs as the reference.

i.e. Mount pack 1 first then onto 2 etc.

Regards Dave

G1XAZ GQRP 11142

ps. I have low power black boxes this a new venture for me I have also ordered the Kendricks BitX20 and for that Cumbrian designs Digital Display (Still waiting for the Kendricks kit)

PPS. Also having my eyes tested next week..... Perhaps it should be my Brain. (Chuckle mode on)

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Hill Country State Natural Area Partners

GRA-TRAils
OOIDA

[Non-text portions of this message have been removed]

This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

173. Re-written I have problems with Remembering louis ... Obvious I was thinking not writing!!!

Yahoo group: mkars80
Date: 2008-05-19 19:58:06 UTC
From: G1XAZ - PO
Topic: 170 Message: 173

Hi Louis, SORRY FOR LAST EMAIL

In the UK I shropshire RAYNET events organisor... noting the end of your email.

To be honest this is only my second build my first project was many years
ago when I started into radio so it was about 1973.

That was a direct conversion reciever it took me longer to find out where I had
screwed up than build the flippin thing.

Nice to know someone else is out there thats just starting

73 Dave G1XAZ

----- Original Message -----
From: Trailriding_Texas
To: mkars80@...
Sent: Monday, May 19, 2008 8:40 PM
Subject: Re: [mkars80] Hi All

Yes, the manual is set-up as such, to do one packet at a time! I am about half way through the construction of mine! Not sure the implications of doing out of order, but I am sure the designers had a reason for packaging as such!

I am a rookie at this, and have enjoyed it so far!

Louis

Dave <g1xaz@...> wrote: Hi All,

I am awaiting my kit from G6ALU (Steve) but I have been looking thru
the constuction manual and it talks about pack 1,2 et al. Should I
then construct the radio using the packs as the reference.

i.e. Mount pack 1 first then onto 2 etc.

Regards Dave

G1XAZ GQRP 11142

ps. I have low power black boxes this a new venture for me I have also
ordered the Kendricks BitX20 and for that Cumbrian designs Digital
Display (Still waiting for the Kendricks kit)

PPS. Also having my eyes tested next week..... Perhaps it should be
my Brain. (Chuckle mode on)

Hill Country REACT
Hill Country State Natural Area Partners
GRA-TRAils
OOIDA

[Non-text portions of this message have been removed]

This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

174. Re: [mkars80] Hi All

Yahoo group: mkars80
Date: 2008-05-19 20:31:38 UTC
From: Steve Drury
Topic: 170 Message: 174

Dave,
Read the manual and all should become clear, if it doesn't I need to re-write it!

In the manual I instruct you what bag to take the component from and unless you are an experienced builder I wouldn't advise building out of order. You will see that components are generally fitted in height order, this is important as trying to fit capacitors after the coils are fitted is tricky.

The way the components are bagged might seem a bit strange, as for instance I have put zener diodes in 3 consecutive bags. This is to reduce the likely hood of the wrong diode being fitted - they are very easy to confuse with 1N4148s.

Any way I hope you enjoy the build.

Steve G6ALU

----- Original Message -----
From: Dave
To: mkars80@...
Sent: Monday, May 19, 2008 8:33 PM
Subject: [mkars80] Hi All

Hi All,

I am awaiting my kit from G6ALU (Steve) but I have been looking thru
the constuction manual and it talks about pack 1,2 et al. Should I
then construct the radio using the packs as the reference.

i.e. Mount pack 1 first then onto 2 etc.

Regards Dave

G1XAZ GQRP 11142

ps. I have low power black boxes this a new venture for me I have also
ordered the Kendricks BitX20 and for that Cumbrian designs Digital
Display (Still waiting for the Kendricks kit)

PPS. Also having my eyes tested next week..... Perhaps it should be
my Brain. (Chuckle mode on)

Yahoo! Groups Links

--
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Version: 7.5.524 / Virus Database: 269.23.20/1453 - Release Date: 18/05/2008 09:31

[Non-text portions of this message have been removed]

175. Re: [mkars80] Hi All

Yahoo group: mkars80
Date: 2008-05-19 20:37:15 UTC
From: G1XAZ - PO
Topic: 170 Message: 175

Thanks Steve,

I was not expecting a reply tonight especially this early as your club night was tonight.

I write before I read steve hence my last email to loius.

No prob's Steve when I get my kit me start playing.

Q4 (you've had 1,2,3) Any suggestions for Iron temperature.

73 Dave

ps. You'll get sick of hearing from me or a new Manual (Chuckle mode on)

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Monday, May 19, 2008 9:31 PM
Subject: Re: [mkars80] Hi All

Dave,
Read the manual and all should become clear, if it doesn't I need to re-write it!

In the manual I instruct you what bag to take the component from and unless you are an experienced builder I wouldn't advise building out of order. You will see that components are generally fitted in height order, this is important as trying to fit capacitors after the coils are fitted is tricky.

The way the components are bagged might seem a bit strange, as for instance I have put zener diodes in 3 consecutive bags. This is to reduce the likely hood of the wrong diode being fitted - they are very easy to confuse with 1N4148s.

Any way I hope you enjoy the build.

Steve G6ALU

----- Original Message -----
From: Dave
To: mkars80@...
Sent: Monday, May 19, 2008 8:33 PM
Subject: [mkars80] Hi All

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[Non-text portions of this message have been removed]

176. Re: [mkars80] Hi All

Yahoo group: mkars80
Date: 2008-05-19 20:46:58 UTC
From: Steve Drury
Topic: 170 Message: 176

If you use a temperature controlled iron hotter is better than cooler, I can't give you an exact temperature as it really depends on the bit size and to some extent your preference. When soldering (tinning) the ends of enamelled copper wire have the iron hot so the enamel burns off easily.

If the solder blobs and doesn't flow quickly the iron is too cold.

Steve G6ALU

----- Original Message -----
From: G1XAZ - PO
To: mkars80@...
Sent: Monday, May 19, 2008 9:37 PM
Subject: Re: [mkars80] Hi All

Thanks Steve,

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The way the components are bagged might seem a bit strange, as for instance I have put zener diodes in 3 consecutive bags. This is to reduce the likely hood of the wrong diode being fitted - they are very easy to confuse with 1N4148s.

Any way I hope you enjoy the build.

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[Non-text portions of this message have been removed]

177. Manual Addendum Part 1 Chapter 1 Para 1

Yahoo group: mkars80
Date: 2008-05-19 20:51:56 UTC
From: G1XAZ - PO
Topic: 170 Message: 177

Hi Steve,

I know how to solder but before now I have screwed up I am thinking of buying a weller temperater controlled iron.

Like I said I hav'nt been here before. OK I am not qoing to be too much of a prat but some idea of what I am looking for is the Q (No 4)

I taught computer studies for some years but never had to use a blasted soldering iron.

Dave

[Non-text portions of this message have been removed]

178. Re: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Yahoo group: mkars80
Date: 2008-05-19 21:05:37 UTC
From: Steve Drury
Topic: 170 Message: 178

Allow me to do a temperature test on our works Weller iron tomorrow and I will let you know my preference. The most important thing is to make sure the components are in the correct holes! Get some de-solder wick if you are ordering (2mm width is my preference), this will greatly assist in removing wrongly fitted components or solder splashes but MUST be used with a hot iron to be effective.

If you do wrongly fit any components it is probably best to cut their legs off and pull them out individually, I will then replace the component(s) free of charge.

Steve G6ALU

----- Original Message -----
From: G1XAZ - PO
To: mkars80@...
Sent: Monday, May 19, 2008 9:51 PM
Subject: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Hi Steve,

I know how to solder but before now I have screwed up I am thinking of buying a weller temperater controlled iron.

Like I said I hav'nt been here before. OK I am not qoing to be too much of a prat but some idea of what I am looking for is the Q (No 4)

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

179. Re: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Yahoo group: mkars80
Date: 2008-05-19 21:08:37 UTC
From: G1XAZ - PO
Topic: 170 Message: 179

Hi Steve,

This Comment.

If you do wrongly fit any components it is probably best to cut their legs off and pull them out individually,

Free of charge bit cut off out of context.

But that is a very usefull note for the likes of me that have not been there before.

73 Dave

[Non-text portions of this message have been removed]

180. Re: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Yahoo group: mkars80
Date: 2008-05-20 19:51:52 UTC
From: Steve Drury
Topic: 170 Message: 180

A little investigation showed that with a professional Weller iron a tip temperature of about 375°C was good, this allowed the solder to flow well and also burned the enamel from the ECW relatively easily.

There is no need to go and buy an expensive temperature controlled iron though - I have added a picture to this group's photo section showing the set-up I used to build the first prototype kit, nothing fancy only cheap tools used.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: G1XAZ - PO
To: mkars80@...
Sent: Monday, May 19, 2008 9:51 PM
Subject: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Hi Steve,

I know how to solder but before now I have screwed up I am thinking of buying a weller temperater controlled iron.

Like I said I hav'nt been here before. OK I am not qoing to be too much of a prat but some idea of what I am looking for is the Q (No 4)

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

181. Re: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Yahoo group: mkars80
Date: 2008-05-20 19:55:44 UTC
From: G1XAZ - PO
Topic: 170 Message: 181

Thanks Steve (Uncle Elmer).

Very gratefull for your input.

73 Dave

----- Original Message -----
From: Steve Drury
To: mkars80@yahoogroups.co.uk
Sent: Tuesday, May 20, 2008 8:51 PM
Subject: Re: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

A little investigation showed that with a professional Weller iron a tip temperature of about 375°C was good, this allowed the solder to flow well and also burned the enamel from the ECW relatively easily.

There is no need to go and buy an expensive temperature controlled iron though - I have added a picture to this group's photo section showing the set-up I used to build the first prototype kit, nothing fancy only cheap tools used.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: G1XAZ - PO
To: mkars80@yahoogroups.co.uk
Sent: Monday, May 19, 2008 9:51 PM
Subject: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

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[Non-text portions of this message have been removed]

182. Re: [mkars80] Hi All

Yahoo group: mkars80
Date: 2008-05-20 20:52:48 UTC
From: G1XAZ - PO
Topic: 170 Message: 182

Hi Louis,

If you read the latter emails steve does say go in packet order as some components being smaller
should be put on the board earlier.

73 Dave

PS. Had email off Steve my kit sb here in the morning....

----- Original Message -----
From: Trailriding_Texas
To: mkars80@...
Sent: Monday, May 19, 2008 8:40 PM
Subject: Re: [mkars80] Hi All

Yes, the manual is set-up as such, to do one packet at a time! I am about half way through the construction of mine! Not sure the implications of doing out of order, but I am sure the designers had a reason for packaging as such!

I am a rookie at this, and have enjoyed it so far!

Louis

Dave <g1xaz@...> wrote: Hi All,

I am awaiting my kit from G6ALU (Steve) but I have been looking thru
the constuction manual and it talks about pack 1,2 et al. Should I
then construct the radio using the packs as the reference.

i.e. Mount pack 1 first then onto 2 etc.

Regards Dave

G1XAZ GQRP 11142

ps. I have low power black boxes this a new venture for me I have also
ordered the Kendricks BitX20 and for that Cumbrian designs Digital
Display (Still waiting for the Kendricks kit)

PPS. Also having my eyes tested next week..... Perhaps it should be
my Brain. (Chuckle mode on)

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GRA-TRAils
OOIDA

[Non-text portions of this message have been removed]

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183. RE: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Yahoo group: mkars80
Date: 2008-05-20 22:19:37 UTC
From: Ray Stringfellow
Topic: 170 Message: 183

It's probably worth adding that for the inexperienced the old style solder (with lead) is much easier to use, and does a better job, than the new politically correct lead free stuff.

Also avoid breathing any solder fumes and especially the fumes from wire enamel.

Ray

[Non-text portions of this message have been removed]

184. RE: RE: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Yahoo group: mkars80
Date: 2008-05-20 23:41:24 UTC
From: G1XAZ - PO
Topic: 170 Message: 184

Thanks Ray,

Are there any of the newer types that should be considered ?

73 Dave

[Non-text portions of this message have been removed]

185. RE: RE: [mkars80] Manual Addendum Part 1 Chapter 1 Para 1

Yahoo group: mkars80
Date: 2008-05-21 08:06:45 UTC
From: Ray Stringfellow
Topic: 170 Message: 185

Hi Dave in a word no. (Unless someone out there has researched all the different types and found a good one)

Lead solder is still readily available for repair work and some industries are exempt from using the lead free stuff on safety and reliability grounds which says a lot.

Get a reel with cored water soluble flux so the flux is easy to remove after soldering.

A small diameter solder is easier to control/use than thick stuff.

Lead free solder melts at a higher temp so it's easier to damage components during soldering. Also the finished joint is visibly different and it's difficult to see a dry joint.

Ray

Thanks Ray,

Are there any of the newer types that should be considered ?
73 Dave

[Non-text portions of this message have been removed]

186. Wow! Record Build Time! NOT!

Yahoo group: mkars80
Date: 2008-05-24 23:16:54 UTC
From: Louis
Topic: 186 Message: 186

Well, I have had my kit since January, or was it late Decemeber! Hmm!
Anyhow, I just found time today to sit and work on it, and made it
through Bag 2. Maybe work on populating from bag 3 tonight!

So far all is well! What a great kit and excellent instruction manual.

Thanks,

Louis
K1STX

187. Another Dutch MKARS80 on the air

Yahoo group: mkars80
Date: 2008-05-27 21:39:51 UTC
From: Hans
Topic: 187 Message: 187

Hi Folks,
Christiaan PA3FUN inspired me to order a MKARS80-tranceiver.
Within a week after receiving the kit from G6ALU, i managed to put the rig on the air on 3630. It was a great succes ! Good audio and sigs.
My compliments for the excellent description and manual.
The printed circuit board realy looks very professional !
I enjoyed building the rig very much and could not wait till the circuitboard was boxed to put the little one on the air.
I think this little tranceiver will inspire me to extend it with several practical options.
If done so, i will send a message to this bulletin board.
Best 73, Hans PA0HWB in Breda, The Netherlands

188. OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-28 20:40:39 UTC
From: G1XAZ - PO
Topic: 187 Message: 188

Hi All,

Dave is ready (G1XAZ) I have the main pack open so starting there.

Q. Do any of you suffer from hand movement and no feeling in your hands
the reason I ask is I suffer from both but if other members (builders) understand how to hold the components in place I would be very gratefull to know what methods have been used.

I have asked Steve (G6ALU) about winding the torriods for me but I would prefer to do that myself if possible, but bless him he will help.

I am not asking Steve Yet!!!!.

Holding components on the PCB and soldering them in place is my no 1 wish.

Regards All.

Dave G1XAZ

[Non-text portions of this message have been removed]

189. Re: [mkars80] OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-28 20:49:00 UTC
From: Trailriding_Texas
Topic: 187 Message: 189

I place 10 or so components at a time and then solder, sometimes more, depending on how crowded the leads get!

Just place the leads in the proper holes, with the component snug against the board, and then bend the leads out about 45 degrees. There is a picture of this on page 3 of the manual. When ready, flip to the solder side (I use a helper stand sold by Radio Shack) and solder away. When done, snip the leads and continue on to the next set!

G1XAZ - PO <g1xaz@...> wrote: Hi All,

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I am not asking Steve Yet!!!!.

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Regards All.

Dave G1XAZ

[Non-text portions of this message have been removed]

Hill Country REACT
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GRA-TRAils
OOIDA

[Non-text portions of this message have been removed]

190. Re: [mkars80] OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-28 23:29:13 UTC
From: Barry Mayson
Topic: 187 Message: 190

Hi I sometimes have problems with shaking hands and reduced movement due
to a very bad RTA , I try and work when they are not so bad or do
bigger types of things. I also rest my hand on the bench or object to
reduce the shakes . The SMD are very difficult to work with and I
practice a lot for a long time before using them, The real bad one to
solder is the AD9835 DDS chip it has a very small pitch. I flood
soldered it and used solder wick to remove the excess. These devices
seem to be very much more resistant to heating issues , but the tracks
are so fine they sometimes lift off if too much heat is used.
I have wound a few toroids now by sewing the wire with a large eyed
needle borrowed from the wife. It works well for me but it gets
difficult with the very small ones. Anyway I wish you luck.

Regards Barry G1LHL

G1XAZ - PO wrote:
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> Regards All.
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> Dave G1XAZ
>
> [Non-text portions of this message have been removed]
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>
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> Checked by AVG.
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>

191. Re: [mkars80] OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-28 21:04:34 UTC
From: G1XAZ - PO
Topic: 187 Message: 191

Hello Mr Texas,

I cannot use the Helping hands from Radio Shack (TANDY) over here they
are too flimsy for me I need somethings that can hold a PCB in place and I can then
put the components in place.

73 Dave G1XAZ.

Events Oraganisor Shropshire Raynet UK.

PS. I normally use black boxes but decided to build my own !!!

[Non-text portions of this message have been removed]

192. Re: [!! SPAM] Re: [mkars80] OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-28 23:31:57 UTC
From: G1XAZ - PO
Topic: 187 Message: 192

Hi Barry,

Thanks for the reply. I do have a secret weapon MY WIFE Jen M3XAZ she is taking over my M3 callsign I got it when G1's were allowed on the HF bands only used it a couple of times then
discovered we had HF (Uhhhh Hummmm).

Anyway she is ok soldering but I will try doing the torriods myself but if I get stuck I am not
going to push them at
Jen.

Regards Dave G1XAZ

----- Original Message -----
From: Barry Mayson
To: mkars80@...
Sent: Thursday, May 29, 2008 12:29 AM
Subject: [!! SPAM] Re: [mkars80] OK All, Where do I start !!!

Hi I sometimes have problems with shaking hands and reduced movement due to a very bad RTA , I try and work when they are not so bad or do bigger types of things. I also rest my hand on the bench or object to reduce the shakes . The SMD are very difficult to work with and I practice a lot for a long time before using them, The real bad one to solder is the AD9835 DDS chip it has a very small pitch. I flood soldered it and used solder wick to remove the excess. These devices seem to be very much more resistant to heating issues , but the tracks are so fine they sometimes lift off if too much heat is used.
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G1XAZ - PO wrote:
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[Non-text portions of this message have been removed]

193. Ps From Dave - For Mr Texas

Yahoo group: mkars80
Date: 2008-05-28 21:07:51 UTC
From: G1XAZ - PO
Topic: 187 Message: 193

PS To the Last Mr Texas !!!

Could you put me up for a week love to come to Texas but you will have to put up with a wheelchair.

73 Dave

[Non-text portions of this message have been removed]

194. Re: OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-29 09:16:51 UTC
From: football4fun99
Topic: 187 Message: 194

Hi I usually just lurk in this group, but might I suggest using solder paste for SMD components. I use an embossing heat gun, the components and solder snaps onto the traces once the paste turns to solder.

You can pick up a syringe of solder paste for $5 here
http://www.zianet.com/erg/ShopSolderPaste.html

He has a nice tutorial with video for using the paste here
http://www.zianet.com/erg/SMT_Soldering.html

I personally don't use the hotplate, just the embossing gun, and it works wonders. I picked up my embossing gun from Micheal's craft store for $15.

Hope this helps,
Chris, KI4ZLX

--- In mkars80@..., Barry Mayson <barry@...> wrote:
>
> Hi I sometimes have problems with shaking hands and reduced movement due
> to a very bad RTA , I try and work when they are not so bad or do
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>

195. Re: [mkars80] OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-29 11:41:13 UTC
From: David Lacey
Topic: 187 Message: 195

Dave, from another Dave,
Tending to be a little lazy at times, I put in a number of (like) components in at a time. Now I know that statement is going to cause some criticism, especially when you are trying to follow rigorously a set of build instructions !
The point I am going to answer is.....holding in components whilst soldering
I use a soft piece of foam rubber, place it over the components after insertion, carefully turn over the (package) and solder in ONE lead at a time for each component inserted. Doing one lead at a time allows you to check carefully that the item is "fully home" on the pcb before soldering in the final connection. If the component has moved during this operation, it is easy enough to "correct" the problem before moving on.
Hope the information is of help, thing is to experiment, and to find the easiest method that suits you and the materials that you may have to hand.
Just a word of caution....foam rubber burns ! be careful with the iron.
Have fun, there is always a way round any problem.
Regards
Dave G4JBE

----- Original Message ----
From: G1XAZ - PO <g1xaz@...>
To: mkars80@...
Sent: Wednesday, 28 May, 2008 9:40:39 PM
Subject: [mkars80] OK All, Where do I start !!!

Hi All,

Dave is ready (G1XAZ) I have the main pack open so starting there.

Q. Do any of you suffer from hand movement and no feeling in your hands
the reason I ask is I suffer from both but if other members (builders) understand how to hold the components in place I would be very gratefull to know what methods have been used.

I have asked Steve (G6ALU) about winding the torriods for me but I would prefer to do that myself if possible, but bless him he will help.

I am not asking Steve Yet!!!!.

Holding components on the PCB and soldering them in place is my no 1 wish.

Regards All.

Dave G1XAZ

[Non-text portions of this message have been removed]

Sent from Yahoo! Mail.

A Smarter Email http://uk.docs.yahoo.com/nowyoucan.html

[Non-text portions of this message have been removed]

196. Re: [mkars80] OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-29 12:50:04 UTC
From: john boast
Topic: 187 Message: 196

----- Original Message ----
From: G1XAZ - PO <g1xaz@...>
To: mkars80@...
Sent: Thursday, 29 May, 2008 12:31:57 AM
Subject: Re: [!! SPAM] Re: [mkars80] OK All, Where do I start !!!

I use Blu tac gum to hold components against the board and also to hold the thin capacitors upright so I don't bend them whilst handling the board.
When I have soldered the toroids. I use hot glue to hold them down.
My mkars80 is excellent.
Stuart
G3WDL

>
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG.
> Version: 7.5.524 / Virus Database: 269.24.1/1470 - Release Date: 28/05/2008 07:20
>

------------ --------- --------- --------- --------- --------- -
This email has been scanned by Netintelligence
http://www.netintel ligence.com/ email

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[Non-text portions of this message have been removed]

_____
Sent from Yahoo! Mail.
A Smarter Email http://uk.docs.yahoo.com/nowyoucan.html

[Non-text portions of this message have been removed]

197. Re: [mkars80] Re: OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-29 14:45:05 UTC
From: g6alu@tiscali.co.uk
Topic: 187 Message: 197

Not sure what relavence this has to the MKARS80 as it doesn't use ANY surface mount components, for soldering I recomend thin solder (22 - 24SWG) and a hot iron.

Steve G6ALU

>----Original Message----
>From: football4fun99@...
>Date: 29/05/2008 10:16
>To: <mkars80@...>
>Subj: [mkars80] Re: OK All, Where do I start !!!
>
>Hi I usually just lurk in this group, but might I suggest using
>solder paste for SMD components. I use an embossing heat gun, the
>components and solder snaps onto the traces once the paste turns to
>solder.
>
>You can pick up a syringe of solder paste for $5 here
>http://www.zianet.com/erg/ShopSolderPaste.html
>
>He has a nice tutorial with video for using the paste here
>http://www.zianet.com/erg/SMT_Soldering.html
>
>I personally don't use the hotplate, just the embossing gun, and it
>works wonders. I picked up my embossing gun from Micheal's craft
>store for $15.
>
>Hope this helps,
>Chris, KI4ZLX
>
>
>--- In mkars80@..., Barry Mayson <barry@...> wrote:
>>
>> Hi I sometimes have problems with shaking hands and reduced
>movement due
>> to a very bad RTA , I try and work when they are not so bad or do
>> bigger types of things. I also rest my hand on the bench or
>object to
>> reduce the shakes . The SMD are very difficult to work with
and
>I
>> practice a lot for a long time before using them, The real bad
>one to
>> solder is the AD9835 DDS chip it has a very small pitch. I flood
>> soldered it and used solder wick to remove the excess. These

>devices
>> seem to be very much more resistant to heating issues , but the
>tracks
>> are so fine they sometimes lift off if too much heat is used.
>> I have wound a few toroids now by sewing the wire with a large
eyed
>> needle borrowed from the wife. It works well for me but it gets
>> difficult with the very small ones. Anyway I wish you luck.
>>
>> Regards Barry G1LHL
>>
>> G1XAZ - PO wrote:
>> >
>> > Hi All,
>> >
>> > Dave is ready (G1XAZ) I have the main pack open so starting
there.
>> >
>> > Q. Do any of you suffer from hand movement and no feeling in
your
>hands
>> > the reason I ask is I suffer from both but if other members
>(builders)
>> > understand how
>> > to hold the components in place I would be very gratefull to
know
>what
>> > methods have been used.
>> >
>> > I have asked Steve (G6ALU) about winding the torriods for me but
>I
>> > would prefer to do
>> > that myself if possible, but bless him he will help.
>> >
>> > I am not asking Steve Yet!!!!.
>> >
>> > Holding components on the PCB and soldering them in place is my
>no 1 wish.
>> >
>> > Regards All.
>> >
>> > Dave G1XAZ
>> >
>> > [Non-text portions of this message have been removed]
>> >
>> >
>> >

>------
>> >

>> > No virus found in this incoming message.
>> > Checked by AVG.
>> > Version: 7.5.524 / Virus Database: 269.24.1/1470 - Release Date:
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>Yahoo! Groups Links
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Guard against online ID theft - http://www.tiscali.co.uk/spyguard

198. Re: [mkars80] OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-29 19:13:28 UTC
From: G1XAZ - PO
Topic: 187 Message: 198

Hi Stuart,

Its ok to solder the components in place with the blue tac there.

Regards Dave - G1XAZ

----- Original Message -----
From: john boast
To: mkars80@...
Sent: Thursday, May 29, 2008 1:50 PM
Subject: Re: [mkars80] OK All, Where do I start !!!

----- Original Message ----
From: G1XAZ - PO <g1xaz@...>
To: mkars80@...
Sent: Thursday, 29 May, 2008 12:31:57 AM
Subject: Re: [!! SPAM] Re: [mkars80] OK All, Where do I start !!!

I use Blu tac gum to hold components against the board and also to hold the thin capacitors upright so I don't bend them whilst handling the board.
When I have soldered the toroids. I use hot glue to hold them down.
My mkars80 is excellent.
Stuart
G3WDL

>
>
> ------------ --------- --------- --------- --------- --------- -
>
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> Version: 7.5.524 / Virus Database: 269.24.1/1470 - Release Date: 28/05/2008 07:20
>

------------ --------- --------- --------- --------- --------- -
This email has been scanned by Netintelligence
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[Non-text portions of this message have been removed]

_____
Sent from Yahoo! Mail.
A Smarter Email http://uk.docs.yahoo.com/nowyoucan.html

[Non-text portions of this message have been removed]

This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

199. Re: [mkars80] OK All, Where do I start !!!

Yahoo group: mkars80
Date: 2008-05-29 19:15:33 UTC
From: G1XAZ - PO
Topic: 187 Message: 199

Hi Dave,

Thanks for that Dave - G1XAZ

----- Original Message -----
From: David Lacey
To: mkars80@...
Sent: Thursday, May 29, 2008 12:41 PM
Subject: Re: [mkars80] OK All, Where do I start !!!

Dave, from another Dave,
Tending to be a little lazy at times, I put in a number of (like) components in at a time.
Now I know that statement is going to cause some criticism, especially when you are
trying to follow rigorously a set of build instructions !
The point I am going to answer is.....holding in components whilst soldering
I use a soft piece of foam rubber, place it over the components after insertion,
carefully turn over the (package) and solder in ONE lead at a time for each
component inserted. Doing one lead at a time allows you to check carefully
that the item is "fully home" on the pcb before soldering in the final connection.
If the component has moved during this operation, it is easy enough to "correct" the
problem before moving on.
Hope the information is of help, thing is to experiment, and to find the easiest
method that suits you and the materials that you may have to hand.
Just a word of caution....foam rubber burns ! be careful with the iron.
Have fun, there is always a way round any problem.
Regards
Dave G4JBE

----- Original Message ----
From: G1XAZ - PO <g1xaz@...>
To: mkars80@...
Sent: Wednesday, 28 May, 2008 9:40:39 PM
Subject: [mkars80] OK All, Where do I start !!!

Hi All,

Dave is ready (G1XAZ) I have the main pack open so starting there.

Q. Do any of you suffer from hand movement and no feeling in your hands
the reason I ask is I suffer from both but if other members (builders) understand how
to hold the components in place I would be very gratefull to know what methods have been
used.

I have asked Steve (G6ALU) about winding the torriods for me but I would prefer to do
that myself if possible, but bless him he will help.

I am not asking Steve Yet!!!!.

Holding components on the PCB and soldering them in place is my no 1 wish.

Regards All.

Dave G1XAZ

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

200. Hi Louis

Yahoo group: mkars80
Date: 2008-05-30 03:01:31 UTC
From: G1XAZ - PO
Topic: 187 Message: 200

Hi Louis,

Nice to speak to you on Yahoo groups tonight.

Regards Dave

[Non-text portions of this message have been removed]

201. Hi Luois a est Message from My Account - NS what name appears !!

Yahoo group: mkars80
Date: 2008-05-30 03:06:39 UTC
From: G1XAZ - PO
Topic: 187 Message: 201

Hi All, and Louis.

Testing this email appears as Dave - G1XAZ on the group sorry all.

Dave

[Non-text portions of this message have been removed]

202. Test Only from G1XAZ

Yahoo group: mkars80
Date: 2008-05-30 03:19:26 UTC
From: G1XAZ - PO
Topic: 187 Message: 202

Test Message

[Non-text portions of this message have been removed]

203. Test Message 2

Yahoo group: mkars80
Date: 2008-05-30 03:22:09 UTC
From: Dave - G1XAZ
Topic: 187 Message: 203

Sorry TM 2

Dave

[Non-text portions of this message have been removed]

204. Thanks All - sorry for the emails but Msnot does cause !!!

Yahoo group: mkars80
Date: 2008-05-30 03:32:46 UTC
From: Dave - G1XAZ
Topic: 187 Message: 204

Hi All,

Sorry for this but I have been a Linux guy for many years and just purchased a new
HP laptop came with Vista on it.. uhhh hummmmmm. Prefer my Linux but all I was trying to do was change my dispalyed name in outlook express that was easy but windows mail it has all changed.

Anyway sorted now sorry for the extra emails to sort it out.

Further comment I have been happy with linux for years and purchasing this new HP laptop I am forced
to use msnot again.

Sorry for grinding the post again but why when you buy a new machine you do not have the choice of
what op sys you wish on it.

Regards All Dave.

Sorry I have wasted bandwidth with a few of you that are not broadband but untill I could see what was
displayed to the group... Sorry I Kept going.

Regards ALL Dave G1XAZ

[Non-text portions of this message have been removed]

205. Re: Thanks All - sorry for the emails but Msnot does cause !!!

Yahoo group: mkars80
Date: 2008-05-30 05:45:21 UTC
From: Garry
Topic: 187 Message: 205

Good heavens Dave. Why are you stuck with Vista? There are many different Linux Distros out there and most of them have a downloadable "live CD" that you can use to test the Distro with to ensure that all functions work as desired. Once you find one that does (I suspect most of them will be capable of finding and installing all of the necessary hardware) simply reformat the hard drive and install your Linux version. Or if you wish, rather than reformatting the HD, partition it, (yes you can do that without messing up the Windows install) and make your machine a dual boot.

If I can do it I imagine anyone can HI.

I'd like to say "Catch you on the air with the Mkars80" but I suspect it won't happen between us without a tad more power than the wee beastie currently puts out.

73

Garry/Ve7ajj

--- In mkars80@..., "Dave - G1XAZ" <g1xaz@...> wrote:
>
> Hi All,
>
> Sorry for this but I have been a Linux guy for many years and just purchased a new
> HP laptop came with Vista on it.. uhhh hummmmmm. Prefer my Linux but all I was trying to do
> was change my dispalyed name in outlook express that was easy but windows mail it has all changed.
>
> Anyway sorted now sorry for the extra emails to sort it out.
>
> Further comment I have been happy with linux for years and purchasing this new HP laptop I am forced
> to use msnot again.
>
> Sorry for grinding the post again but why when you buy a new machine you do not have the choice of
> what op sys you wish on it.
>
> Regards All Dave.
>
> Sorry I have wasted bandwidth with a few of you that are not broadband but untill I could see what was
> displayed to the group... Sorry I Kept going.

>
> Regards ALL Dave G1XAZ
>
> [Non-text portions of this message have been removed]
>

206. Re: [mkars80] Re: Thanks All - sorry for the emails but Msnot does cause !!!

Yahoo group: mkars80
Date: 2008-05-30 06:14:41 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 187 Message: 206

It will take linux time to catch up with device drivers for a new laptop.
I bought one a month ago and couldn't find a distro that would play with properly with the video hardware or even see the network interfaces so
had to go back to the preinstalled Vista.

Garry wrote:
> Good heavens Dave. Why are you stuck with Vista? There are many
> different Linux Distros out there and most of them have a
> downloadable "live CD" that you can use to test the Distro with to
> ensure that all functions work as desired. Once you find one that
> does (I suspect most of them will be capable of finding and
> installing all of the necessary hardware) simply reformat the hard
> drive and install your Linux version. Or if you wish, rather than
> reformatting the HD, partition it, (yes you can do that without
> messing up the Windows install) and make your machine a dual boot.
>
> If I can do it I imagine anyone can HI.
>
> I'd like to say "Catch you on the air with the Mkars80" but I suspect
> it won't happen between us without a tad more power than the wee
> beastie currently puts out.
>
> 73
>
> Garry/Ve7ajj

207. move frequency up a bit?

Yahoo group: mkars80
Date: 2008-06-08 20:30:28 UTC
From: Mike
Topic: 207 Message: 207

Hey guys,
I built a Mkars80 kit and it works great but I want to move the
frequency up to the US portion 3.600-4.00mhz. I was wondering if
removing turns from the oscillator will move it up or adding turns? It
now covers from about 3.500-3.700MHZ

thanks

Mike
WA3O

208. Re: [mkars80] move frequency up a bit?

Yahoo group: mkars80
Date: 2008-06-08 20:46:13 UTC
From: Steve Drury
Topic: 207 Message: 208

Hi Mike,
Its normally possible to get more range than required for the UK allocation, how low in frequency will the VFO go if you set the top end for 3.8MHz?

Look at the second column on page 12 of the instructions, this indicates which trimmer on the back of the polyvaricon will adjust the range. If sufficient range isn't available you may have to increase the value of C47 (68pF) a little, I suggest adding 10pF NP0 type capacitor to start.

Winding turns OFF the VFO coil will increase its frequency so decreasing the tuned frequency, winding turns ON will increase the tuned frequency but also decrease the tuning range; changing the number of turns may not help.

Let us know how you get on,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Mike
To: mkars80@...
Sent: Sunday, June 08, 2008 9:30 PM
Subject: [mkars80] move frequency up a bit?

Hey guys,
I built a Mkars80 kit and it works great but I want to move the
frequency up to the US portion 3.600-4.00mhz. I was wondering if
removing turns from the oscillator will move it up or adding turns? It
now covers from about 3.500-3.700MHZ

thanks

Mike
WA3O

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 270.0.0/1489 - Release Date: 07/06/2008 11:17

[Non-text portions of this message have been removed]

209. Re: [mkars80] move frequency up a bit?

Yahoo group: mkars80
Date: 2008-06-08 21:40:46 UTC
From: Stephen Wandling
Topic: 207 Message: 209

Hi Steve,

I'm glad Mike asked this question. I had taken the specification of "whole 80M band by VFO" to be 3.5-4.0Mhz. I now realize that the reference was to the UK allocation. Since the UK allocation is 300Khz, am I correct to assume that the tuning can be shifted to 3.7-4.0Mhz, without any problems?

Reading your post below it seems that more range can be obtained. Can the shift and the extended range both be obtained at the same time? Can you say approximately how much the range could be extended. For example, if the top end is set at 4.0Mhz, is 3.6Mhz possible for the lower end? If not then what is the approximate range that can be obtained?

Further, there is some mention on the MKARS site about a DDS VFO. Has this option been made available?

Thanks

72
Stephen
VE7NSD

Steve Drury wrote:
>
> Hi Mike,
> Its normally possible to get more range than required for the UK
> allocation, how low in frequency will the VFO go if you set the top
> end for 3.8MHz?
>
> Look at the second column on page 12 of the instructions, this
> indicates which trimmer on the back of the polyvaricon will adjust the
> range. If sufficient range isn't available you may have to increase
> the value of C47 (68pF) a little, I suggest adding 10pF NP0 type
> capacitor to start.
>
> Winding turns OFF the VFO coil will increase its frequency so
> decreasing the tuned frequency, winding turns ON will increase the
> tuned frequency but also decrease the tuning range; changing the
> number of turns may not help.
>
> Let us know how you get on,
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk

>
> ----- Original Message -----
> From: Mike
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Sunday, June 08, 2008 9:30 PM
> Subject: [mkars80] move frequency up a bit?
>
> Hey guys,
> I built a Mkars80 kit and it works great but I want to move the
> frequency up to the US portion 3.600-4.00mhz. I was wondering if
> removing turns from the oscillator will move it up or adding turns? It
> now covers from about 3.500-3.700MHZ
>
> thanks
>
> Mike
> WA3O
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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> 07/06/2008 11:17
>
> [Non-text portions of this message have been removed]
>
>

210. Re: [mkars80] move frequency up a bit?

Yahoo group: mkars80
Date: 2008-06-09 07:02:31 UTC
From: g6alu@tiscali.co.uk
Topic: 207 Message: 210

Stephen,
I need to check my MKARS80 to answer your question accurately but I'm sure others have extended the range with little or no component change. The greater the frequency coverage the lower the stability....

We decided not to incorporate a DDS or CW option - it seemed appropriate to leave the radio as simple as we could and save these additional features for a later radio design.

Steve G6ALU

>----Original Message----
>From: swandling@...
>Date: 08/06/2008 22:40
>To: <mkars80@...>
>Subj: Re: [mkars80] move frequency up a bit?
>
>Hi Steve,
>
>I'm glad Mike asked this question. I had taken the specification of
>"whole 80M band by VFO" to be 3.5-4.0Mhz. I now realize that the
>reference was to the UK allocation. Since the UK allocation is
>300Khz, am I correct to assume that the tuning can be shifted to
>3.7-4.0Mhz, without any problems?
>
>Reading your post below it seems that more range can
>be obtained. Can the shift and the extended range both be obtained
>at the same time? Can you say approximately how much the range
>could be extended. For example, if the top end is set at 4.0Mhz, is
>3.6Mhz possible for the lower end? If not then what is the
>approximate range that can be obtained?
>
>Further, there is some mention on the MKARS site about a DDS
>VFO. Has this option been made available?
>
>Thanks
>
>72
>Stephen
>VE7NSD
>
>Steve Drury wrote:
>>
>> Hi Mike,
>> Its normally possible to get more range than required for the UK
>> allocation, how low in frequency will the VFO go if you set the

top
>> end for 3.8MHz?
>>
>> Look at the second column on page 12 of the instructions, this
>> indicates which trimmer on the back of the polyvaricon will adjust
the
>> range. If sufficient range isn't available you may have to
increase
>> the value of C47 (68pF) a little, I suggest adding 10pF NP0 type
>> capacitor to start.
>>
>> Winding turns OFF the VFO coil will increase its frequency so
>> decreasing the tuned frequency, winding turns ON will increase the
>> tuned frequency but also decrease the tuning range; changing the
>> number of turns may not help.
>>
>> Let us know how you get on,
>> Steve G6ALU
>>
>> My web site: www.radio-kits.co.uk
>>
>> ----- Original Message -----
>> From: Mike
>> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
>> Sent: Sunday, June 08, 2008 9:30 PM
>> Subject: [mkars80] move frequency up a bit?
>>
>> Hey guys,
>> I built a Mkars80 kit and it works great but I want to move the
>> frequency up to the US portion 3.600-4.00mhz. I was wondering if
>> removing turns from the oscillator will move it up or adding turns?
It
>> now covers from about 3.500-3.700MHZ
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>> thanks
>>
>> Mike
>> WA3O
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>> --
>> No virus found in this incoming message.
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>> 07/06/2008 11:17
>>
>> [Non-text portions of this message have been removed]

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>>
>
>----------
>
>Yahoo! Groups Links
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>
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>

EURO 2008 with Tiscali - http://www.tiscali.co.uk/events/2008/euro-2008

---

211. Help! My mkars80 is deaf!

Yahoo group: mkars80
Date: 2008-06-12 16:05:11 UTC
From: Vincenzo Calandra
Topic: 211 Message: 211

Hi all,

first apologize me for my bad English.

I received my MKARS80 on the end of November 2007 but only in last two weekend of may i find the time to build it.

The package (and the enclosure) was crushed and next i discovered two toroid was broken.

After the preliminary test i connect an antenna (my 40mt dipole) and a loudspeaker.

No signal! Only a soft wispering come out from the loudspeaker. I advanced the r.f. gain but no change.

With a finger i make a test on the af part. Some "huummm" coming from loudspeaker. Good. The a.f. work!

With the my signal generator (as a signal tracer) and scope i understand that the problem was on xtal filter. During this test i discovered a broken termination on T4 so i rewind it.

I replaced all the xtal and now i heard some thing but if i put the level of signal generator at -50 dBm the signal was inaudible!

I verified all the voltage (only in receiver mode at this time i don't test the trasmission) and only the following voltage are different:

Q7 emitter 0 (ok) base measured 0,05 (normal 0,39) collector 2,3 (ok)
Q19 emitter measured 3,6 (normal 3,0) base mes. 2,9 (normal 3,7) collector 7,5 (ok)

Someone can help me with an advice?

Where i can get a schematic whit higher resolution? I printed it with a laser printer using the best resolution allowed (1200dpi) and with a good magnifying glass it's difficult to read the value.

Many tanks!!!

--
Ciao, Enzo. (IZ5GVP)

(vcalandra@...)

[Non-text portions of this message have been removed]

212. Re: [mkars80] Help! My mkars80 is deaf!

Yahoo group: mkars80
Date: 2008-06-12 19:10:17 UTC
From: Steve Drury
Topic: 211 Message: 212

Hi Enzo,

Sorry to hear your package was crushed, something very nasty must have happened to crush an aluminium case! Had you told me a lot sooner I could have claimed compensation from the post office but unfortunately after all this time they wouldn't accept it. If you require some replacement toroids I can send you those, just let me know.

Both the transistor voltages are about normal, most of the problems I have found have been due to solder splashes but these normally show up with incorrect voltages on the transistors.

You may like to try and set up the transmitter and then see if it will transmit any power, remember that most stages work on transmit and receive.

If all else fails please return it to me and I will get it going for you, my address is on the letter you received with the kit.

I will be making a multi-part diagram as I have been asked by others to do this.

Regards,
Steve G6ALU

----- Original Message -----
From: Vincenzo Calandra
To: mkars80@...
Sent: Thursday, June 12, 2008 5:05 PM
Subject: [mkars80] Help! My mkars80 is deaf!

Hi all,

first apologize me for my bad English.

I received my MKARS80 on the end of November 2007 but only in last two weekend of may i find the time to build it.

The package (and the enclosure) was crushed and next i discovered two toroid was broken.

After the preliminary test i connect an antenna (my 40mt dipole) and a loudspeaker.

No signal! Only a soft wispering come out from the loudspeaker. I advanced the r.f. gain but no change.

With a finger i make a test on the af part. Some "huummm" coming from loudspeaker. Good. The a.f. work!

With the my signal generator (as a signal tracer) and scope i understand that the problem was on xtal filter. During this test i discovered a

broken termination on T4 so i rewind it.

I replaced all the xtal and now i heard some thing but if i put the level of signal generator at -50 dBm the signal was inaudible!

I verified all the voltage (only in receiver mode at this time i don't test the trasmission) and only the following voltage are different:

Q7 emitter 0 (ok) base measured 0,05 (normal 0,39) collector 2,3 (ok)
Q19 emitter measured 3,6 (normal 3,0) base mes. 2,9 (normal 3,7) collector 7,5 (ok)

Someone can help me with an advice?

Where i can get a schematic whit higher resolution? I printed it with a laser printer using the best resolution allowed (1200dpi) and with a good magnifying glass it's difficult to read the value.

Many tanks!!!

--
Ciao, Enzo. (IZ5GVP)

(vcalandra@...)

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 270.1.0/1492 - Release Date: 09/06/2008 10:29

[Non-text portions of this message have been removed]

213. Re: [mkars80] Help! My mkars80 is deaf!

Yahoo group: mkars80
Date: 2008-06-18 17:30:57 UTC
From: Vincenzo Calandra
Topic: 211 Message: 213

Il giorno gio, 12/06/2008 alle 20.10 +0100, Steve Drury ha scritto:

Tnx for reply, Steve and excuse me for delay.

Thanks for your availability about the aluminium case and the broken toroids but there is no problem.

Today i can get some time to test the mkars80 tx.

There is no power. What a pity!

So i will return (in first week of July) it at your address and hope you discover the fault.

Again many thanks for you availability and excuse me for my "frightful" english :-)

> Hi Enzo,
>
> Sorry to hear your package was crushed, something very nasty must have
> happened to crush an aluminium case! Had you told me a lot sooner I
> could have claimed compensation from the post office but unfortunately
> after all this time they wouldn't accept it. If you require some
> replacement toroids I can send you those, just let me know.
>
> Both the transistor voltages are about normal, most of the problems I
> have found have been due to solder splashes but these normally show up
> with incorrect voltages on the transistors.
>
> You may like to try and set up the transmitter and then see if it will
> transmit any power, remember that most stages work on transmit and
> receive.
>
> If all else fails please return it to me and I will get it going for
> you, my address is on the letter you received with the kit.
>

--
My best regards.
Enzo. (IZ5GVP)

(vcalandra@...)

[Non-text portions of this message have been removed]

214. Re: [mkars80] Help! My mkars80 is deaf!

Yahoo group: mkars80
Date: 2008-06-18 18:29:26 UTC
From: Steve Drury
Topic: 211 Message: 214

No problem Enzo, I look forward to its return.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Vincenzo Calandra
To: mkars80@...
Sent: Wednesday, June 18, 2008 6:30 PM
Subject: Re: [mkars80] Help! My mkars80 is deaf!

Il giorno gio, 12/06/2008 alle 20.10 +0100, Steve Drury ha scritto:

Tnx for reply, Steve and excuse me for delay.

Thanks for your availability about the aluminium case and the broken
toroids but there is no problem.

Today i can get some time to test the mkars80 tx.

There is no power. What a pity!

So i will return (in first week of July) it at your address and hope you
discover the fault.

Again many thanks for you availability and excuse me for my "frightful"
english :-)

> Hi Enzo,
>
> Sorry to hear your package was crushed, something very nasty must have
> happened to crush an aluminium case! Had you told me a lot sooner I
> could have claimed compensation from the post office but unfortunately
> after all this time they wouldn't accept it. If you require some
> replacement toroids I can send you those, just let me know.
>
> Both the transistor voltages are about normal, most of the problems I
> have found have been due to solder splashes but these normally show up
> with incorrect voltages on the transistors.
>
> You may like to try and set up the transmitter and then see if it will
> transmit any power, remember that most stages work on transmit and
> receive.
>
> If all else fails please return it to me and I will get it going for
> you, my address is on the letter you received with the kit.

>

--
My best regards.
Enzo. (IZ5GVP)

(vcalandra@...)

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
Internal Virus Database is out-of-date.
Checked by AVG.
Version: 7.5.524 / Virus Database: 270.1.0/1492 - Release Date: 09/06/2008 10:29

[Non-text portions of this message have been removed]

215. Hi resolution MKARS80 schematic

Yahoo group: mkars80
Date: 2008-06-19 20:48:31 UTC
From: Steve Drury
Topic: 215 Message: 215

I have generated a hi resolution schematic - load into your favourite paint program and print the area / resolution required.

See http://uk.groups.yahoo.com/group/mkars80/files/

Steve G6ALU

My web site: www.radio-kits.co.uk

[Non-text portions of this message have been removed]

216. Re: [mkars80] Hi resolution MKARS80 schematic

Yahoo group: mkars80
Date: 2008-06-19 21:37:36 UTC
From: Dave - G1XAZ
Topic: 215 Message: 216

Hi Steve,

The front room table is clear, Telly put where I can watch it.

Yep Pecky is starting... Check you emails and if ANY SENSE a block on
my email address.

The comment earlier on about the torroids, could I please ask you to wind them for me
and what pennies do you require.

Regards Dave

AND PUT THAT BLOODY BLOCK ON MY EMAILS (chuckle mode on)

from Dave the KOFA

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Thursday, June 19, 2008 9:48 PM
Subject: [mkars80] Hi resolution MKARS80 schematic

I have generated a hi resolution schematic - load into your favourite paint program and
print the area / resolution required.

See http://uk.groups.yahoo.com/group/mkars80/files/

Steve G6ALU

My web site: www.radio-kits.co.uk

[Non-text portions of this message have been removed]

This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

217. Re: [mkars80] Hi resolution MKARS80 schematic

Yahoo group: mkars80
Date: 2008-06-20 07:16:52 UTC
From: g6alu@tiscali.co.uk
Topic: 215 Message: 217

I will find someone to do that for you....

Steve G6ALU

>----Original Message----
>From: g1xaz@...
>Date: 19/06/2008 22:37
>To: <mkars80@...>
>Subj: Re: [mkars80] Hi resolution MKARS80 schematic
>
>Hi Steve,
>
>The front room table is clear, Telly put where I can watch it.
>
>Yep Pecky is starting... Check you emails and if ANY SENSE a block on
>my email address.
>
>The comment earlier on about the torroids, could I please ask you to
wind them for me
>and what pennies do you require.
>
>Regards Dave
>
>AND PUT THAT BLOODY BLOCK ON MY EMAILS (chuckle mode on)
>
>from Dave the KOFA
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Thursday, June 19, 2008 9:48 PM
> Subject: [mkars80] Hi resolution MKARS80 schematic
>
>
> I have generated a hi resolution schematic - load into your
favourite paint program and print the area / resolution required.
>
> See http://uk.groups.yahoo.com/group/mkars80/files/
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> [Non-text portions of this message have been removed]

>
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>--
> This email has been scanned by Netintelligence
> http://www.netintelligence.com/email
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>[Non-text portions of this message have been removed]
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>------------------------------------
>
>Yahoo! Groups Links
>
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>
>

Hundreds of free games from Tiscali Play - http://www.tiscali.co.uk/play

218. Things to watch out for

Yahoo group: mkars80
Date: 2008-06-20 15:57:56 UTC
From: Steve Drury
Topic: 218 Message: 218

Black boxes in display
I have changed the manufacturer of the LCD display, the new one is 100% compatible with the MKARS80 and the previous display.

This new display has a wider bias adjustment range - when first turned on you may see black boxes where you expect to see characters; this isn't a fault, simply adjust R29 (adjacent to the micro) so the black boxes just disappear leaving the text with a good contrast.

Short circuits caused by washers on RF gain and fine tune fixings
Two constructors have had a problem where the large serrated washers fitted under the potentiometer fixing nuts can short to adjacent PCB tracks. When fitting the washers check that this doesn't happen. It is permissible to fit the controls WITHOUT these washers.

These are omissions from the manual which I will correct and re-issue.

Steve G6ALU

[Non-text portions of this message have been removed]

219. Re: [mkars80] Things to watch out for

Yahoo group: mkars80
Date: 2008-06-20 16:09:19 UTC
From: Dave - G1XAZ
Topic: 218 Message: 219

Well Steve,

Thats saved the possibility of two emails (chuckle mode on)

Dave G1XAZ

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Friday, June 20, 2008 4:57 PM
Subject: [mkars80] Things to watch out for

Black boxes in display
I have changed the manufacturer of the LCD display, the new one is 100% compatible with the MKARS80 and the previous display.

This new display has a wider bias adjustment range - when first turned on you may see black boxes where you expect to see characters; this isn't a fault, simply adjust R29 (adjacent to the micro) so the black boxes just disappear leaving the text with a good contrast.

Short circuits caused by washers on RF gain and fine tune fixings
Two constructors have had a problem where the large serrated washers fitted under the potentiometer fixing nuts can short to adjacent PCB tracks. When fitting the washers check that this doesn't happen. It is permissible to fit the controls WITHOUT these washers.

These are omissions from the manual which I will correct and re-issue.

Steve G6ALU

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

220. A Question to All watching this group !!

Yahoo group: mkars80
Date: 2008-06-20 18:07:28 UTC
From: Dave - G1XAZ
Topic: 218 Message: 220

Hi,

Is there a Net that those of you that have built these radios go onto and natter.

I presume most of you are around Milton Keynes but I am little further away in North Shropshire Nr Telford.

Dave G1XAZ

PS. I am quite aware these things can go world wide but 80 is a good natter band up here I natter to a guy on 17mtr and he is only 3 mile away. (Natter Band)

[Non-text portions of this message have been removed]

221. Re: Hi resolution MKARS80 schematic

Yahoo group: mkars80
Date: 2008-06-21 09:03:13 UTC
From: John
Topic: 215 Message: 221

Steve's Hi-Resolution schematic diagram is also available from the MKARS80 page on MKARS web site (bottom of page download section) see www.mkars.org.uk

John (M0TIF)

-- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I have generated a hi resolution schematic - load into your favourite paint program and print the area / resolution required.
>
> See http://uk.groups.yahoo.com/group/mkars80/files/
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
>
> [Non-text portions of this message have been removed]
>

222. Re: A Question to All watching this group !!

Yahoo group: mkars80
Date: 2008-06-21 13:36:53 UTC
From: John Harper
Topic: 218 Message: 222

I'll be sure to keep an ear out for you folks ;-)

John Harper AE5X
Kingwood, Texas

http://www.ae5x.com

--- In mkars80@..., "Dave - G1XAZ" <g1xaz@...> wrote:
>
> Hi,
>
> Is there a Net that those of you that have built these radios go
onto and natter.
>
> I presume most of you are around Milton Keynes but I am little
further away in
> North Shropshire Nr Telford.

223. Re: [mkars80] Re: A Question to All watching this group !!

Yahoo group: mkars80
Date: 2008-06-21 21:10:48 UTC
From: Dave - G1XAZ
Topic: 218 Message: 223

Hi John,

Still Building mine but I did/do wonder if the is a net for the Mkars80 if not may I suggest
you start from the states and I start here.

73 Dave G1XAZ GQRP 11142

----- Original Message -----
From: John Harper
To: mkars80@...
Sent: Saturday, June 21, 2008 2:36 PM
Subject: [mkars80] Re: A Question to All watching this group !!

I'll be sure to keep an ear out for you folks ;-)

John Harper AE5X
Kingwood, Texas

http://www.ae5x.com

--- In mkars80@..., "Dave - G1XAZ" <g1xaz@...> wrote:
>
> Hi,
>
> Is there a Net that those of you that have built these radios go
onto and natter.
>
> I presume most of you are around Milton Keynes but I am little
further away in
> North Shropshire Nr Telford.

This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

224. Re: [mkars80] Re: A Question to All watching this group !!

Yahoo group: mkars80
Date: 2008-06-21 21:19:31 UTC
From: Steve Drury
Topic: 218 Message: 224

The problem with a net local to me is just that... 80M propogation doesn't really support local nets but a country wide (UK) net early evening may be possible.

Does someone want to suggest a day, time and frequency? Perhaps the QRP segment at 3690kHz but not sure what time of day would suit most.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Dave - G1XAZ
To: mkars80@...
Sent: Saturday, June 21, 2008 10:10 PM
Subject: Re: [mkars80] Re: A Question to All watching this group !!

Hi John,

Still Building mine but I did/do wonder if the is a net for the Mkars80 if not may I suggest
you start from the states and I start here.

73 Dave G1XAZ GQRP 11142

----- Original Message -----
From: John Harper
To: mkars80@...
Sent: Saturday, June 21, 2008 2:36 PM
Subject: [mkars80] Re: A Question to All watching this group !!

I'll be sure to keep an ear out for you folks ;-)

John Harper AE5X
Kingwood, Texas

http://www.ae5x.com

--- In mkars80@..., "Dave - G1XAZ" <g1xaz@...> wrote:
>
> Hi,
>
> Is there a Net that those of you that have built these radios go
onto and natter.
>
> I presume most of you are around Milton Keynes but I am little
further away in
> North Shropshire Nr Telford.

This email has been scanned by Netintelligence
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 270.4.1/1512 - Release Date: 21/06/2008 09:27

[Non-text portions of this message have been removed]

225. Re: [mkars80] Re: A Question to All watching this group !!

Yahoo group: mkars80
Date: 2008-06-21 22:20:24 UTC
From: Dave - G1XAZ
Topic: 218 Message: 225

Hi Steve,

My kenwood does that down to 5 watts no prob's but steve there should be a natter net for us
I don't see a prob with that. The BitX20 guys are there why not us.

Rg Dave

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Saturday, June 21, 2008 10:19 PM
Subject: Re: [mkars80] Re: A Question to All watching this group !!

The problem with a net local to me is just that... 80M propogation doesn't really support local nets but a country wide (UK) net early evening may be possible.

Does someone want to suggest a day, time and frequency? Perhaps the QRP segment at 3690kHz but not sure what time of day would suit most.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Dave - G1XAZ
To: mkars80@...
Sent: Saturday, June 21, 2008 10:10 PM
Subject: Re: [mkars80] Re: A Question to All watching this group !!

Hi John,

Still Building mine but I did/do wonder if the is a net for the Mkars80 if not may I suggest
you start from the states and I start here.

73 Dave G1XAZ GQRP 11142

----- Original Message -----
From: John Harper
To: mkars80@...
Sent: Saturday, June 21, 2008 2:36 PM
Subject: [mkars80] Re: A Question to All watching this group !!

I'll be sure to keep an ear out for you folks ;-)

John Harper AE5X
Kingwood, Texas

http://www.ae5x.com

--- In mkars80@..., "Dave - G1XAZ" <g1xaz@...> wrote:
>
> Hi,
>
> Is there a Net that those of you that have built these radios go
onto and natter.
>
> I presume most of you are around Milton Keynes but I am little
further away in
> North Shropshire Nr Telford.

This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG.
Version: 7.5.524 / Virus Database: 270.4.1/1512 - Release Date: 21/06/2008 09:27

[Non-text portions of this message have been removed]

This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

226. Members photos

Yahoo group: mkars80
Date: 2008-07-07 21:09:38 UTC
From: Steve drury
Topic: 226 Message: 226

I've just added a couple of photos sent by Ron PA0RCL, they show a different colour scheme and a good idea for a handle / stand.

Photos in:

http://uk.ph.groups.yahoo.com/group/mkars80/photos/browse/c2c7

Please don't be afraid to post your own photos.

Steve G6ALU

227. Panel template

Yahoo group: mkars80
Date: 2008-07-10 10:44:37 UTC
From: sentinel040
Topic: 227 Message: 227

Is there a template for cutting / drilling the boxes available anywhere please? I though there was one in the Files section but maybe i was mistaken.

73 Ian

228. RE: [mkars80] Panel template

Yahoo group: mkars80
Date: 2008-07-10 14:11:47 UTC
From: Martin Butler
Topic: 227 Message: 228

Hi Ian

All the information you need can be found at the bottom of this web page.

http://myweb.tiscali.co.uk/mkars/MKARS80.htm

73's Martin (M1MRB)

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of sentinel040
Sent: 10 July 2008 11:45
To: mkars80@...
Subject: [mkars80] Panel template

Is there a template for cutting / drilling the boxes available anywhere
please? I though there was one in the Files section but maybe i was
mistaken.

73 Ian

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.4.7/1543 - Release Date: 7/9/2008
6:32 PM

229. Re: [mkars80] Help! My mkars80 is deaf!

Yahoo group: mkars80
Date: 2008-07-12 18:20:46 UTC
From: Steve Drury
Topic: 211 Message: 229

Hi Enzo,

Your MKARS80 is sorted, your construction was good and it was a simple problem - some of the transformer wires hadn't had the insulation melted off when they are soldered. In my experience this is due to a soldering iron which was not hot enough.

I had a QSO with my friend Alan 2E0GLD to prove it worked OK (using his MKARS80), I also worked a couple of stations in the contest today!

The kit will be sent back to you this week when I have wrapped it up VERY carefully to make sure it doesn't get damaged.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Vincenzo Calandra
To: mkars80@...
Sent: Wednesday, June 18, 2008 6:30 PM
Subject: Re: [mkars80] Help! My mkars80 is deaf!

Il giorno gio, 12/06/2008 alle 20.10 +0100, Steve Drury ha scritto:

Tnx for reply, Steve and excuse me for delay.

Thanks for your availability about the aluminium case and the broken
toroids but there is no problem.

Today i can get some time to test the mkars80 tx.

There is no power. What a pity!

So i will return (in first week of July) it at your address and hope you
discover the fault.

Again many thanks for you availability and excuse me for my "frightful"
english :-)

> Hi Enzo,
>
> Sorry to hear your package was crushed, something very nasty must have
> happened to crush an aluminium case! Had you told me a lot sooner I
> could have claimed compensation from the post office but unfortunately
> after all this time they wouldn't accept it. If you require some
> replacement toroids I can send you those, just let me know.
>

> Both the transistor voltages are about normal, most of the problems I
> have found have been due to solder splashes but these normally show up
> with incorrect voltages on the transistors.
>
> You may like to try and set up the transmitter and then see if it will
> transmit any power, remember that most stages work on transmit and
> receive.
>
> If all else fails please return it to me and I will get it going for
> you, my address is on the letter you received with the kit.
>

--
My best regards.
Enzo. (IZ5GVP)

(vcalandra@...)

[Non-text portions of this message have been removed]

Yahoo! Groups Links

--
Internal Virus Database is out-of-date.
Checked by AVG.
Version: 7.5.524 / Virus Database: 270.1.0/1492 - Release Date: 09/06/2008 10:29

[Non-text portions of this message have been removed]

230. Re: [mkars80] Help! My mkars80 is deaf!

Yahoo group: mkars80
Date: 2008-07-13 05:31:02 UTC
From: Vincenzo Calandra
Topic: 211 Message: 230

Il giorno sab, 12/07/2008 alle 19.20 +0100, Steve Drury ha scritto:

Wonderful news!
Many thanks Steve!

> Hi Enzo,
>
> Your MKARS80 is sorted, your construction was good and it was a simple
> problem - some of the transformer wires hadn't had the insulation
> melted off when they are soldered. In my experience this is due to a
> soldering iron which was not hot enough.
>
> I had a QSO with my friend Alan 2E0GLD to prove it worked OK (using
> his MKARS80), I also worked a couple of stations in the contest today!
>
> The kit will be sent back to you this week when I have wrapped it up
> VERY carefully to make sure it doesn't get damaged.
>
> Regards,
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Vincenzo Calandra
> To: mkars80@...
> Sent: Wednesday, June 18, 2008 6:30 PM
> Subject: Re: [mkars80] Help! My mkars80 is deaf!
>
> Il giorno gio, 12/06/2008 alle 20.10 +0100, Steve Drury ha scritto:
>
> Tnx for reply, Steve and excuse me for delay.
>
> Thanks for your availability about the aluminium case and the broken
> toroids but there is no problem.
>
> Today i can get some time to test the mkars80 tx.
>
> There is no power. What a pity!
>
> So i will return (in first week of July) it at your address and hope
> you
> discover the fault.
>
> Again many thanks for you availability and excuse me for my

> "frightful"
> english :-)
>
> > Hi Enzo,
> >
> > Sorry to hear your package was crushed, something very nasty must
> have
> > happened to crush an aluminium case! Had you told me a lot sooner I
> > could have claimed compensation from the post office but
> unfortunately
> > after all this time they wouldn't accept it. If you require some
> > replacement toroids I can send you those, just let me know.
> >
> > Both the transistor voltages are about normal, most of the problems
> I
> > have found have been due to solder splashes but these normally show
> up
> > with incorrect voltages on the transistors.
> >
> > You may like to try and set up the transmitter and then see if it
> will
> > transmit any power, remember that most stages work on transmit and
> > receive.
> >
> > If all else fails please return it to me and I will get it going for
> > you, my address is on the letter you received with the kit.
> >
>
> --
> My best regards.
> Enzo. (IZ5GVP)
>
> (vcalandra@...)
>
> [Non-text portions of this message have been removed]
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> --
> Internal Virus Database is out-of-date.
> Checked by AVG.
> Version: 7.5.524 / Virus Database: 270.1.0/1492 - Release Date:
> 09/06/2008 10:29
>
> [Non-text portions of this message have been removed]
>
>
>

>
>
>

--
Ciao, Enzo. (IZ5GVP)

(vcalandra@...)

[Non-text portions of this message have been removed]

231. MKARS80 recieved

Yahoo group: mkars80
Date: 2008-07-17 23:21:13 UTC
From: Paul
Topic: 231 Message: 231

Hello Steve & MKARS members,

Collected my kit from Sutton & Cheam Radio Society meeting today.

I am not into building electronic kits, etc, so this will be an interesting build for me.

Luckily I have the Sutton & Whitton clubs with members I can turn to.

Might be back here a few times with Questions.

73 for now

Paul MØTZO

232. Re: [mkars80] MKARS80 recieved

Yahoo group: mkars80
Date: 2008-07-17 23:32:20 UTC
From: Steve Drury
Topic: 231 Message: 232

Hi Paul,
Just got back myself!

I enjoyed doing the presentation this evening, if you or any of your club members have problems feel free to post them here where they can be answered by myself or other group members.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Paul
To: mkars80@...
Sent: Friday, July 18, 2008 12:21 AM
Subject: [mkars80] MKARS80 recieved

Hello Steve & MKARS members,

Collected my kit from Sutton & Cheam Radio Society meeting today.

I am not into building electronic kits, etc, so this will be an
interesting build for me.

Luckily I have the Sutton & Whitton clubs with members I can turn to.

Might be back here a few times with Questions.

73 for now

Paul MØTZO

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.0/1558 - Release Date: 17/07/2008 09:56

[Non-text portions of this message have been removed]

233. microphone

Yahoo group: mkars80
Date: 2008-07-18 11:11:41 UTC
From: Jerry A Bligh
Topic: 233 Message: 233

Hi all
I received my kit today and will start building this afternoon, but I have a question regarding the mic. So as not to delay construction can anybody suggest the best mice to use and where to obtain one.
I have lots of olb CB mikes but am not sure about their suitability.
Any guidance would be appreciated.
Regards
Jerry
2U0BGE

234. Re: [mkars80] microphone

Yahoo group: mkars80
Date: 2008-07-18 14:02:35 UTC
From: Steve Drury
Topic: 233 Message: 234

Jerry,

Use any electret type microphone - we use PC type microphones from pound-land but any similar microphone will do. If using a dynamic microphone like a CB mic which is of the coil and magnet type you will have to remove the bias resistor R17.

Regards,
Steve G6ALU

----- Original Message -----
From: Jerry A Bligh
To: mkars80@...
Sent: Friday, July 18, 2008 12:11 PM
Subject: [mkars80] microphone

Hi all
I received my kit today and will start building this afternoon, but I
have a question regarding the mic. So as not to delay construction can
anybody suggest the best mice to use and where to obtain one.
I have lots of olb CB mikes but am not sure about their suitability.
Any guidance would be appreciated.
Regards
Jerry
2U0BGE

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.0/1558 - Release Date: 17/07/2008 09:56

[Non-text portions of this message have been removed]

235. It's going - almost!

Yahoo group: mkars80
Date: 2008-07-18 20:28:23 UTC
From: ve3xj
Topic: 235 Message: 235

Well, I finally got my kit going, at least on the recieve side. However, there are a couple of problems and I hope there might be some expertise out there...

1. Little audio. When the band is busy in the evenings, there is not much audio. I have the gain cranked right up, and I used two different earphones, and you sometimes really have to have the ambient noise down in order to listen to the rig. I checked the voltage on pin 6 on the LM3866 chip, and there is 12.6 volts... Is there anything else that I should be looking for? (When I checked the voltage, I accidently shorted the probe between pins 5 and 6. I did see a small puff of smoke, but I didn't see where it originated from. So to be safe, I got another 386 - it just so happens it is the one watt variety as that is all my local parts emporium had. I am going to solder in a socket as well - I have always been leary of directly soldering chips... call it a personal foible...)

2. This is probably related, but we could not discern any difference in tuning the bandpass filter while adjusting the capacitors. Mind you, we were trying to do it by ear with a signal from a signal generator and listening to the audio. I think a better way to do it would be use my MFJ269 as a generator with the MFJ adjustable attenuator (to provide a 50 ohm load) feeding the MKARS, and and with a scope on the other side of the filter, adjust for peak, with one cap for the high-end of the band, the next for mid-band and the third for wht lower end of the band? Does this make sense?

Thanks for any advice....

73

Jim, VE3XJ

236. Re: [mkars80] It's going - almost!

Yahoo group: mkars80
Date: 2008-07-18 21:19:17 UTC
From: Steve Drury
Topic: 235 Message: 236

Jim,

With a decent antenna and at night you should have some VERY loud signals.

The smoke probably came from R10, if it still reads around 4.7 Ohms then don't worry about it.

First thing to do is measure all the transistor voltages and confirm they are similar to those I give in the manual, if you are lucky this will show where the problem is.

The bandpass filter is only used on transmit and is wide, just adjust the capacitors as indicated in the manual and it will be tuned OK.

Is the circuit sensitive around the crystal filter output? Try it by touching the non ground side of D19 and D20, this should produce crackles, buzzes and posibly recption of broadcast stations - if there is no activity here look for problems from this point through to the audio amplifier.

If you have a signal generator (perhaps your MFJ269 with the attenuator) and 'scope connect the generator to the antenna socket and set it to mid band (3.7MHz ish), with the speaker / phones removed and sufficient output from the generator follow the signal through the circuit. It should be amplified by each transistor stage - remember though that to test past the first mixer you must be tuned to the signal.

If you set up the output transistor bias do you get any transmit power?

Let us know how you get on.

Steve G6ALU

----- Original Message -----
From: ve3xj
To: mkars80@...
Sent: Friday, July 18, 2008 9:28 PM
Subject: [mkars80] It's going - almost!

Well, I finally got my kit going, at least on the recieve side.
However, there are a couple of problems and I hope there might be some
expertise out there...

1. Little audio. When the band is busy in the evenings, there is not
much audio. I have the gain cranked right up, and I used two different
earphones, and you sometimes really have to have the ambient noise down
in order to listen to the rig. I checked the voltage on pin 6 on the
LM3866 chip, and there is 12.6 volts... Is there anything else that I
should be looking for? (When I checked the voltage, I accidently
shorted the probe between pins 5 and 6. I did see a small puff of
smoke, but I didn't see where it originated from. So to be safe, I got

another 386 - it just so happens it is the one watt variety as that is all my local parts emporium had. I am going to solder in a socket as well - I have always been leary of directly soldering chips... call it a personal foible...)

2. This is probably related, but we could not discern any difference in tuning the bandpass filter while adjusting the capacitors. Mind you, we were trying to do it by ear with a signal from a signal generator and listening to the audio. I think a better way to do it would be use my MFJ269 as a generator with the MFJ adjustable attenuator (to provide a 50 ohm load) feeding the MKARS, and and with a scope on the other side of the filter, adjust for peak, with one cap for the high-end of the band, the next for mid-band and the third for wht lower end of the band? Does this make sense?

Thanks for any advice....

73

Jim, VE3XJ

Yahoo! Groups Links

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Version: 8.0.138 / Virus Database: 270.5.0/1558 - Release Date: 17/07/2008 09:56

[Non-text portions of this message have been removed]

237. Re: [mkars80] It's going - almost!

Yahoo group: mkars80
Date: 2008-07-19 08:59:09 UTC
From: Steve Drury
Topic: 235 Message: 237

Jim,

Stuart G3WDL reminds me that he had a similar problem (low audio) which was caused by an open circuit 4.7 Ohm resistor - please check this before going any further. If you require any replacement parts please let me know.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: ve3xj
To: mkars80@...
Sent: Friday, July 18, 2008 9:28 PM
Subject: [mkars80] It's going - almost!

Well, I finally got my kit going, at least on the recieve side.
However, there are a couple of problems and I hope there might be some
expertise out there...

1. Little audio. When the band is busy in the evenings, there is not
much audio. I have the gain cranked right up, and I used two different
earphones, and you sometimes really have to have the ambient noise down
in order to listen to the rig. I checked the voltage on pin 6 on the
LM3866 chip, and there is 12.6 volts... Is there anything else that I
should be looking for? (When I checked the voltage, I accidently
shorted the probe between pins 5 and 6. I did see a small puff of
smoke, but I didn't see where it originated from. So to be safe, I got
another 386 - it just so happens it is the one watt variety as that is
all my local parts emporium had. I am going to solder in a socket as
well - I have always been leary of directly soldering chips... call it
a personal foible...)

2. This is probably related, but we could not discern any difference
in tuning the bandpass filter while adjusting the capacitors. Mind
you, we were trying to do it by ear with a signal from a signal
generator and listening to the audio. I think a better way to do it
would be use my MFJ269 as a generator with the MFJ adjustable
attenuator (to provide a 50 ohm load) feeding the MKARS, and and with a
scope on the other side of the filter, adjust for peak, with one cap
for the high-end of the band, the next for mid-band and the third for
wht lower end of the band? Does this make sense?

Thanks for any advice....

73

Jim, VE3XJ

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.0/1558 - Release Date: 17/07/2008 09:56

[Non-text portions of this message have been removed]

238. Re: Panel template

Yahoo group: mkars80
Date: 2008-07-19 20:09:12 UTC
From: sentinel040
Topic: 227 Message: 238

Thank you!!

--- In mkars80@..., "Martin Butler" <martin@...> wrote:
>
> Hi Ian
>
> All the information you need can be found at the bottom of this web
page.
>
> http://myweb.tiscali.co.uk/mkars/MKARS80.htm
>
> 73's Martin (M1MRB)
>
> -----Original Message-----
> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...]
On Behalf
> Of sentinel040
> Sent: 10 July 2008 11:45
> To: mkars80@...
> Subject: [mkars80] Panel template
>
> Is there a template for cutting / drilling the boxes available anywhere
> please? I though there was one in the Files section but maybe i was
> mistaken.
>
> 73 Ian
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.4.7/1543 - Release Date: 7/9/2008
> 6:32 PM
>

239. Re: It's going - almost!

Yahoo group: mkars80
Date: 2008-07-20 22:14:17 UTC
From: ve3xj
Topic: 235 Message: 239

GOT IT! I am listening to ONTARS (the Ontario Amateur Radio Service) running from 7 a.m. to 6 p.m. on 3755 khz, time now being 5:35 p.m. and I am hearing most, if not all the stations throughtout Ontario checking in before the net closes for the evening. Using a 4-inch speaker that I picked up from the local parts emporium for 12 loonies and it is doing well.

The problem turned out to be at Q19 - an MPSH10, the first (and only?) RF amp. We diagnosed the problem by injecting a 10 MHz sig at the input and output at Q15 and confirmed that amplifier was working. Then we injected a signal at the rig indicated signal (I think it was around 3750 or so, and noticed that there was no difference. Measuring the voltages on the base and emitter and both were around 3 volts - not in accordance with the voltage chart. Fortunately my friend Pat VE3EUR is an avid QRPer and had a bunch of these transistors so he gave me a couple. I just popped it in a few minutes ago and hooked it up to the antenna. Can't explain why the original transistor went to that big dipole in the sky, but I guess it really doesn't matter. By the way, the MFJ269 and the MFJ adjustable attenuator worked well, but the 269 is not that stable, but it is adequate.

So the next thing to do is start modifying a computer boom-mike headset along with the TX check out, then boxing it up. I hope to bring it to the next Ottawa Valley QRP group monthly. Might even check in one of the other nets later on tonight.

So thanks for the advice Steve! (Turns out the audio amp chip and R10 (4.7 ohms) are just fine, no need to replace. I was considering building a little circuit for the 1 watt chip to put into the speaker that I bought yesterday, but Pat showed me a neat little amp board that he got from kitsandparts, so I am going to looking that.)

73 all

Jim, VE3XJ

P.S. For those in the Eastern Ontario area - the OVQRP sponsors Chilicon on the last operating weekend (20/21 Sept 08) of the Rideau River Provinical Provincial Park near Kemptville, ON about 20 minutes from Ottawa. We set up our various stations and operate just for the heck of it, while camping out for the weekend. It is called Chilicon because for the last few years, I have provided the Friday night dinner - Chili! (I haven't had one complaint!). So if you are in the area, come on out!

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Jim,
>
> Stuart G3WDL reminds me that he had a similar problem (low audio) which was caused by an open circuit 4.7 Ohm resistor - please check this before going any further. If you require any replacement parts please let me know.
>
> Regards,
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: ve3xj
> To: mkars80@....uk
> Sent: Friday, July 18, 2008 9:28 PM
> Subject: [mkars80] It's going - almost!
>
>
> Well, I finally got my kit going, at least on the recieve side.
> However, there are a couple of problems and I hope there might be some
> expertise out there...
>
> 1. Little audio. When the band is busy in the evenings, there is not
> much audio. I have the gain cranked right up, and I used two different
> earphones, and you sometimes really have to have the ambient noise down
> in order to listen to the rig. I checked the voltage on pin 6 on the
> LM3866 chip, and there is 12.6 volts... Is there anything else that I
> should be looking for? (When I checked the voltage, I accidently
> shorted the probe between pins 5 and 6. I did see a small puff of
> smoke, but I didn't see where it originated from. So to be safe, I got
> another 386 - it just so happens it is the one watt variety as that is
> all my local parts emporium had. I am going to solder in a socket as
> well - I have always been leary of directly soldering chips... call it
> a personal foible...)
>
> 2. This is probably related, but we could not discern any

difference
> in tuning the bandpass filter while adjusting the capacitors.
Mind
> you, we were trying to do it by ear with a signal from a signal
> generator and listening to the audio. I think a better way to do
it
> would be use my MFJ269 as a generator with the MFJ adjustable
> attenuator (to provide a 50 ohm load) feeding the MKARS, and and
with a
> scope on the other side of the filter, adjust for peak, with one
cap
> for the high-end of the band, the next for mid-band and the third
for
> wht lower end of the band? Does this make sense?
>
> Thanks for any advice....
>
> 73
>
> Jim, VE3XJ
>
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> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.0/1558 - Release Date:
17/07/2008 09:56
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>
> [Non-text portions of this message have been removed]
>

240. Re: [mkars80] Re: It's going - almost!

Yahoo group: mkars80
Date: 2008-07-21 08:19:44 UTC
From: g6alu@tiscali.co.uk
Topic: 235 Message: 240

Jim,
I'm glad its working now.

Did you check the transistor after you removed it? I think I mentioned in an earlier group message that I have found a sliver of solder across two pads of the same transistor before. I will make a note for the next person who has this problem.

It just shows though that the first fault finding method should be voltage measurements.

Best of luck.

Steve G6ALU

>----Original Message----
>From: ve3xj@...
>Date: 20/07/2008 23:14
>To: <mkars80@...>
>Subj: [mkars80] Re: It's going - almost!
>
>
>GOT IT! I am listening to ONTARS (the Ontario Amateur Radio
Service)
>running from 7 a.m. to 6 p.m. on 3755 khz, time now being 5:35 p.m.
>and I am hearing most, if not all the stations throughtout Ontario
>checking in before the net closes for the evening. Using a 4-inch
>speaker that I picked up from the local parts emporium for 12
loonies
>and it is doing well.
>
>The problem turned out to be at Q19 - an MPSH10, the first (and
only?)
>RF amp. We diagnosed the problem by injecting a 10 MHz sig at the
>input and output at Q15 and confirmed that amplifier was working.
>Then we injected a signal at the rig indicated signal (I think it
was
>around 3750 or so, and noticed that there was no difference.
>Measuring the voltages on the base and emitter and both were around
3
>volts - not in accordance with the voltage chart. Fortunately my
>friend Pat VE3EUR is an avid QRPer and had a bunch of these
>transistors so he gave me a couple. I just popped it in a few
>minutes ago and hooked it up to the antenna. Can't explain why the
>original transistor went to that big dipole in the sky, but I guess
>it really doesn't matter. By the way, the MFJ269 and the MFJ

>adjustable attenuator worked well, but the 269 is not that stable,
>but it is adequate.
>
>So the next thing to do is start modifying a computer boom-mike
>headset along with the TX check out, then boxing it up. I hope to
>bring it to the next Ottawa Valley QRP group monthly. Might even
>check in one of the other nets later on tonight.
>
>So thanks for the advice Steve! (Turns out the audio amp chip and
>R10 (4.7 ohms) are just fine, no need to replace. I was considering
>building a little circuit for the 1 watt chip to put into the
speaker
>that I bought yesterday, but Pat showed me a neat little amp board
>that he got from kitsandparts, so I am going to looking that.)
>
>73 all
>
>Jim, VE3XJ
>
>P.S. For those in the Eastern Ontario area - the OVQRP sponsors
>Chilicon on the last operating weekend (20/21 Sept 08) of the Rideau
>River Provinical Provincial Park near Kemptville, ON about 20
minutes
>from Ottawa. We set up our various stations and operate just for
the
>heck of it, while camping out for the weekend. It is called
Chilicon
>because for the last few years, I have provided the Friday night
>dinner - Chili! (I haven't had one complaint!). So if you are in
the
>area, come on out!
>
>
>
>--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Jim,
>>
>> Stuart G3WDL reminds me that he had a similar problem (low audio)
>which was caused by an open circuit 4.7 Ohm resistor - please check
>this before going any further. If you require any replacement parts
>please let me know.
>>
>> Regards,
>> Steve G6ALU
>>
>> My web site: www.radio-kits.co.uk
>>
>>
>> ----- Original Message -----

>> From: ve3xj
>> To: mkars80@...
>> Sent: Friday, July 18, 2008 9:28 PM
>> Subject: [mkars80] It's going - almost!
>>
>>
>> Well, I finally got my kit going, at least on the recieve side.
>> However, there are a couple of problems and I hope there might
be
>some
>> expertise out there...
>>
>> 1. Little audio. When the band is busy in the evenings, there
>is not
>> much audio. I have the gain cranked right up, and I used two
>different
>> earphones, and you sometimes really have to have the ambient
>noise down
>> in order to listen to the rig. I checked the voltage on pin 6
on
>the
>> LM3866 chip, and there is 12.6 volts... Is there anything else
>that I
>> should be looking for? (When I checked the voltage, I
accidently
>> shorted the probe between pins 5 and 6. I did see a small puff
>of
>> smoke, but I didn't see where it originated from. So to be
safe,
>I got
>> another 386 - it just so happens it is the one watt variety as
>that is
>> all my local parts emporium had. I am going to solder in a
>socket as
>> well - I have always been leary of directly soldering chips...
>call it
>> a personal foible...)
>>
>> 2. This is probably related, but we could not discern any
>difference
>> in tuning the bandpass filter while adjusting the capacitors.
>Mind
>> you, we were trying to do it by ear with a signal from a signal
>> generator and listening to the audio. I think a better way to
do
>it
>> would be use my MFJ269 as a generator with the MFJ adjustable
>> attenuator (to provide a 50 ohm load) feeding the MKARS, and and
>with a
>> scope on the other side of the filter, adjust for peak, with one

>cap
>> for the high-end of the band, the next for mid-band and the
third
>for
>> wht lower end of the band? Does this make sense?
>>
>> Thanks for any advice....
>>
>> 73
>>
>> Jim, VE3XJ
>>
>>
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>> ------------------------------------
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>> Yahoo! Groups Links
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>>
>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.138 / Virus Database: 270.5.0/1558 - Release Date:
>17/07/2008 09:56
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>> [Non-text portions of this message have been removed]
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>
>Yahoo! Groups Links
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>

_____

Free games for all the family - http://www.tiscali.co.uk/play

_____

241. Re: It's going - almost!

Yahoo group: mkars80
Date: 2008-07-21 15:57:43 UTC
From: ve3xj
Topic: 235 Message: 241

Steve:

No, I didn't bother to check the original transistor - I didn't even think to do that. If I can find the original transistor, and if there is enough lead length, I will check it out with a diode tester and see if there is anything unusual and let you know.

On a completely different topic.... I have this really nice knob with a reduction drive, but it is just too big to fit on the case provided. However, I have a much bigger case (approx. 6.25"l X 3"h X 9.75d) in order to accommodate the drive but it would also mean dismounting the digital display, VR1, VR2, LED and VFO main tuning capacitor and remount them on the metal front panel. Is that going to be a problem? The only part that could be problematical could be the VFO cap, but I can use a short piece of RG-174 back to the board. Another issue would be heat sinking the final, but I have a heat sink that would probably work inside the case. Finally, the front and rear panel are metal, but the rest is plastic. If necessary, I have a roll of copper foil and I can use that to line the plastic case part, and jumpering it appropriately to the front and rear panels. So, if I could have your thoughts on this plan, I would appreciate it.

73

Jim, VE3XJ

--- In mkars80@yahoogroups.co.uk, "g6alu@..." <g6alu@...> wrote:
>
>
> Jim,
> I'm glad its working now.
>
> Did you check the transistor after you removed it? I think I
mentioned
> in an earlier group message that I have found a sliver of solder
across
> two pads of the same transistor before. I will make a note for the
next
> person who has this problem.
>
> It just shows though that the first fault finding method should be
> voltage measurements.
>
> Best of luck.
>

> Steve G6ALU
>

242. New photo uploaded to group photos section

Yahoo group: mkars80
Date: 2008-07-23 19:57:55 UTC
From: Steve drury
Topic: 242 Message: 242

Have a look at the latest photo uploaded to the group photos section (navigate from http://uk.groups.yahoo.com/group/mkars80).

This is the handy-work of Ron Vingerling pa0rcl. Perhaps he will let us know how he modded it and how well it performs?

Steve G6ALU

243. Re: New photo uploaded to group photos section

Yahoo group: mkars80
Date: 2008-07-24 08:59:05 UTC
From: m0tif
Topic: 242 Message: 243

That is very impressive indeed Ron (PA0RCL). Any chance of a picture
of the inside? I would be interested in seeing the layout if possible.

73 de John (M0TIF)

--- In mkars80@..., "Steve drury" <g6alu@...> wrote:
>
> Have a look at the latest photo uploaded to the group photos section
> (navigate from http://uk.groups.yahoo.com/group/mkars80).
>
> This is the handy-work of Ron Vingerling pa0rcl. Perhaps he will let
> us know how he modded it and how well it performs?
>
> Steve G6ALU
>

244. Nearly finished

Yahoo group: mkars80
Date: 2008-07-24 14:43:37 UTC
From: Jerry A Bligh
Topic: 244 Message: 244

Hi All
All seems to be going to plan according to the instructions.
Just come to install the display and it is not clear which holes in
the display are supposed to line up with the socket beneath. There
does seem to be enough play to move the display one hole either way.
Just a senior moment but could somebody put me straight before I make
a cockup, it would be a shame at this point.

Regards
Jerry
2U0BGE

245. Re: [mkars80] New photo uploaded to group photos section

Yahoo group: mkars80
Date: 2008-07-24 17:14:58 UTC
From: Vincenzo Calandra
Topic: 242 Message: 245

Il giorno mer, 23/07/2008 alle 19.57 +0000, Steve drury ha scritto:

Very very good job!

> Have a look at the latest photo uploaded to the group photos section
> (navigate from http://uk.groups.yahoo.com/group/mkars80).
>
> This is the handy-work of Ron Vingerling pa0rcl. Perhaps he will let
> us know how he modded it and how well it performs?
>
> Steve G6ALU
>
>
>
>
>
>

--
Ciao, Enzo. (IZ5GVP)

(vcalandra@...)

[Non-text portions of this message have been removed]

246. Re: [mkars80] Nearly finished

Yahoo group: mkars80
Date: 2008-07-24 17:50:42 UTC
From: Steve Drury
Topic: 244 Message: 246

Jerry,

Its the left-hand most holes, if you are unsure have a look at the 2nd prototype picture in the groups photo section.

Sounds like another photo is required in the construction manual.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@...
Sent: Thursday, July 24, 2008 3:43 PM
Subject: [mkars80] Nearly finished

Hi All
All seems to be going to plan according to the instructions.
Just come to install the display and it is not clear which holes in
the display are supposed to line up with the socket beneath. There
does seem to be enough play to move the display one hole either way.
Just a senior moment but could somebody put me straight before I make
a cockup, it would be a shame at this point.

Regards
Jerry
2U0BGE

Yahoo! Groups Links

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date: 19/07/2008 14:01

[Non-text portions of this message have been removed]

247. Re: [mkars80] Nearly finished

Yahoo group: mkars80
Date: 2008-07-24 19:53:47 UTC
From: Jerry A Bligh
Topic: 244 Message: 247

Hi Steve
Thanks for the quick solution, just as an update I got the set working
this afternoon and although there was plenty of loud hiss in the speaker
the odd station I got was quite feint.
I will be trying it again tonight when hopefully there will be a number
of strong signals around.
So here's hoping
Regards
Jerry
2U0BGE

Steve Drury wrote:
>
> Jerry,
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> prototype picture in the groups photo section.
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> Sounds like another photo is required in the construction manual.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Jerry A Bligh
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Thursday, July 24, 2008 3:43 PM
> Subject: [mkars80] Nearly finished
>
> Hi All
> All seems to be going to plan according to the instructions.
> Just come to install the display and it is not clear which holes in
> the display are supposed to line up with the socket beneath. There
> does seem to be enough play to move the display one hole either way.
> Just a senior moment but could somebody put me straight before I make
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> Yahoo! Groups Links

>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com <http://www.avg.com>
> Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> 19/07/2008 14:01
>
> [Non-text portions of this message have been removed]
>
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.5/1571 - Release Date: 24/07/2008 17:42
>

248. Re: [mkars80] Nearly finished

Yahoo group: mkars80
Date: 2008-07-24 20:05:38 UTC
From: Steve Drury
Topic: 244 Message: 248

Stations will be louder in the evening, remember that 80M radios benefit from decent size antenna - I use a full size G5RV, signals are VERY loud!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@...
Sent: Thursday, July 24, 2008 8:53 PM
Subject: Re: [mkars80] Nearly finished

Hi Steve
Thanks for the quick solution, just as an update I got the set working
this afternoon and although there was plenty of loud hiss in the speaker
the odd station I got was quite feint.
I will be trying it again tonight when hopefully there will be a number
of strong signals around.
So here's hoping
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Yahoo! Groups Links

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Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date: 19/07/2008 14:01

[Non-text portions of this message have been removed]

249. Re: [mkars80] Nearly finished

Yahoo group: mkars80
Date: 2008-07-25 16:37:02 UTC
From: Jerry A Bligh
Topic: 244 Message: 249

Hi Steve
All finished and the receiver worked well last night.
I connected up the display following your instructions and that is working fine as well.
As far as the receiver is concerned I now only have one minor problem, I cannot adjust C38 far enough to read 3.45 Mhz.
I suspect it may be to do with the windings on L5 which should be 4.8uH, my coil is, as I checked it on a PEAK inductance meter before I fitted it although I am suspicious that it may have one or two more turns than 40.
Any ideas?
When my mike arrives I will have a go with the TX.
On talking about extra pictures in the build manual, you may want to add something to the second para under construction on page 3 the LED is also mounted on the other side of the PCB. Only a comment which might be useful to the less experienced builder.
From my own perspective this has been one of the nicest kits I have built and I have built a few.
So thanks for all your effort in developing it and also your continued enthusiasm in helping to resolve problems.
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.6/1572 - Release Date: 7/25/2008 6:51 AM
>

250. Re: [mkars80] Nearly finished

Yahoo group: mkars80
Date: 2008-07-25 16:49:19 UTC
From: Steve Drury
Topic: 244 Message: 250

Jerry,

Remember that the IF is ABOVE the signal and oscillator frequency, this means if the oscillator is running low in frequency the tuned frequency will be high.

If you think there are more than 40 turns on the oscillator inductor (L5) and haven't glued the to the board yet I recommend you remove it and count the turns. I haven't found this problem before.....

With regard suggestions for the build manual and the next revision; perhaps we can start a new subject so I can find the changes easily when the time comes to do the new release.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@...
Sent: Friday, July 25, 2008 5:37 PM
Subject: Re: [mkars80] Nearly finished

Hi Steve
All finished and the receiver worked well last night.
I connected up the display following your instructions and that is
working fine as well.
As far as the receiver is concerned I now only have one minor problem, I
cannot adjust C38 far enough to read 3.45 Mhz.
I suspect it may be to do with the windings on L5 which should be 4.8uH,
my coil is, as I checked it on a PEAK inductance meter before I fitted
it although I am suspicious that it may have one or two more turns than 40.
Any ideas?
When my mike arrives I will have a go with the TX.
On talking about extra pictures in the build manual, you may want to add
something to the second para under construction on page 3 the LED is
also mounted on the other side of the PCB. Only a comment which might be
useful to the less experienced builder.
From my own perspective this has been one of the nicest kits I have
built and I have built a few.
So thanks for all your effort in developing it and also your continued
enthusiasm in helping to resolve problems.
Regards
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> My web site: www.radio-kits.co.uk
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> From: Jerry A Bligh
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
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> I will be trying it again tonight when hopefully there will be a number
> of strong signals around.
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[Non-text portions of this message have been removed]

251. Construction manual - notes for next revision

Yahoo group: mkars80
Date: 2008-07-25 17:10:09 UTC
From: Steve Drury
Topic: 251 Message: 251

I have generally had good comments with regard the current MKARS80 construction manual (version V1.1) but I am aware there are some omissions and the odd minor error.

If anyone has any suggestions with regard additions or changes please reply to this mail (on the group), I will use the list generated when making the next revision.

Things I'm aware of:
1.. Error - schematic diagram has the PTT and microphone contacts of CON1 transposed.

2.. Change - Set up instructions for R29 (the display bias setting), currently comes after oscillator and PA bias have been set, reposition to just after power is applied. The control should be adjusted for a correctly contrasted display at first switch on - if left fully clockwise, with some displays you may only see black boxes .

3.. Clarification - Mention that the LED fits on the underside of PCB and can be left off until fitting to case.
"Fit LED from track side and solder on component side", does this need clarification?

4.. Clarification - Mention (and photo?) that the display should be fitted using its left most connector holes.
What have I missed?

Steve G6ALU

My web site: www.radio-kits.co.uk

[Non-text portions of this message have been removed]

252. Going backwards

Yahoo group: mkars80
Date: 2008-07-27 17:03:56 UTC
From: Jerry A Bligh
Topic: 244 Message: 252

Hi Steve

Good news and bad news I think I am going backwards
For those builders wanting to use it on the US 80 meter band up to 4Mhz
all they need to do is add a couple of turns to L5 and they have it
cracked, in my instance I corrected my problem by taking a couple off as
I obviously had to many.
Now the bad news, whilst aligning the oscillator to correct the above
problem, all of a sudden the normal high volume disappeared. I
subsequently found out that the output transistor had got a bit hot, I
think it may have bent over and shorted out to something.
That may pose a problem when I come to try to TX. I want to get it
reeiving properly first.
I have carried out the following.
Inserted an AF tone to pin three of chip 1, there is an output but not
ear splitting I would have expected more.
inserting the tone from one end of R28 gives an output but not from the
other side furthest from IC1
R28 resistor is OK
Checked the 4K7 resistor and tried another speaker as discussed on the forum
Checked all receive voltages on transistors and IC1 all seem to be close
Also injected a tone into Q6 nothing out of speaker
I also tried the set last night, plenty of signals and very clear just
very feint
Any ideas please as I am running out of them now I have been round the
possibilities so many times I can't see the wood for the trees.
Regards
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> Remember that the IF is ABOVE the signal and oscillator frequency,
> this means if the oscillator is running low in frequency the tuned
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> If you think there are more than 40 turns on the oscillator inductor
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> and count the turns. I haven't found this problem before.....
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> With regard suggestions for the build manual and the next revision;
> perhaps we can start a new subject so I can find the changes easily
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>

253. A couple of problem and fixes

Yahoo group: mkars80
Date: 2008-07-27 18:44:41 UTC
From: mb130853
Topic: 253 Message: 253

Hi all

I am sorry if this has been posted before but it may save some of you wasting some valuable time.

I have just finished building the transceiver and was doing initial tests. My VFO was displaying between 4.2Mhz and 4.5Mhz. I checked L5 on my peak LCR tested and found it to measure 4.9uH. I must have had too many turns on L5 and after removing some I got the correct range.
My fault☐

Here is the other problem I encountered which turned out to nothing wrong with this kit.

I was using a Maplin Temperature Control Solder Station (part no: N79AR the one they had on offer for £10 some time ago). As a soldering iron it works very well but it also generates noise across the whole of the 80 metre band. So if you are using one of these on the bench remember to turn it off before setting up this rig.

I have run out of time this weekend to complete the set up but should get the kit finished with in the next week.

73's All

Martin (M1MRB)
www.icqpodcast.com

254. Re: [mkars80] Going backwards

Yahoo group: mkars80
Date: 2008-07-27 20:03:17 UTC
From: Steve Drury
Topic: 244 Message: 254

Jerry,
You may notice the design error around Q6, R18 the bias resistor is too low causing the gain of Q6 to be low - don't change it they are all the same!

You should be able to hear a loud mains buzz if you touch pin 3 of the output IC. It may also be wise to check the mixer transformer wires have been soldered properly.

One way to test the mic and audio output stages is to short Q3 base to emitter whilst pressing the PTT (with a microphone connected), you should get massive feedback! You will get more output by injecting a signal the IC end of R28 rather than the transistor end.

If all else fails I will get it going for you... if you solve the audio problem I will send you a new IRF510, it sounds as though it did get too hot. Try to be quick when setting the PA bias up and keep an eye on the transistor temperature - you normally smell it getting hot! Overheating is the only way I've killed them!

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

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To: mkars80@...
Sent: Sunday, July 27, 2008 6:03 PM
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Hi Steve

Good news and bad news I think I am going backwards
For those builders wanting to use it on the US 80 meter band up to 4Mhz
all they need to do is add a couple of turns to L5 and they have it
cracked, in my instance I corrected my problem by taking a couple off as
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Now the bad news, whilst aligning the oscillator to correct the above
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>
> If you think there are more than 40 turns on the oscillator inductor
> (L5) and haven't glued the to the board yet I recommend you remove it
> and count the turns. I haven't found this problem before.....
>
> With regard suggestions for the build manual and the next revision;
> perhaps we can start a new subject so I can find the changes easily
> when the time comes to do the new release.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Jerry A Bligh
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Friday, July 25, 2008 5:37 PM
> Subject: Re: [mkars80] Nearly finished
>
> Hi Steve
> All finished and the receiver worked well last night.
> I connected up the display following your instructions and that is
> working fine as well.
> As far as the receiver is concerned I now only have one minor problem, I
> cannot adjust C38 far enough to read 3.45 Mhz.
> I suspect it may be to do with the windings on L5 which should be 4.8uH,
> my coil is, as I checked it on a PEAK inductance meter before I fitted
> it although I am suspicious that it may have one or two more turns
> than 40.
> Any ideas?
> When my mike arrives I will have a go with the TX.
> On talking about extra pictures in the build manual, you may want to add
> something to the second para under construction on page 3 the LED is

> also mounted on the other side of the PCB. Only a comment which might be
> useful to the less experienced builder.
> From my own perspective this has been one of the nicest kits I have
> built and I have built a few.
> So thanks for all your effort in developing it and also your continued
> enthusiasm in helping to resolve problems.
> Regards
> Jerry
> 2U0BGE
>
> Steve Drury wrote:
> >
> > Stations will be louder in the evening, remember that 80M radios
> > benefit from decent size antenna - I use a full size G5RV, signals are
> > VERY loud!
> >
> > Steve G6ALU
> >
> > My web site: www.radio-kits.co.uk
> >
> > ----- Original Message -----
> > From: Jerry A Bligh
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Thursday, July 24, 2008 8:53 PM
> > Subject: Re: [mkars80] Nearly finished
> >
> > Hi Steve
> > Thanks for the quick solution, just as an update I got the set working
> > this afternoon and although there was plenty of loud hiss in the speaker
> > the odd station I got was quite feint.
> > I will be trying it again tonight when hopefully there will be a number
> > of strong signals around.
> > So here's hoping
> > Regards
> > Jerry
> > 2U0BGE
> >
> > Steve Drury wrote:
> > >
> > > Jerry,
> > >
> > > Its the left-hand most holes, if you are unsure have a look at the 2nd
> > > prototype picture in the groups photo section.
> > >
> > > Sounds like another photo is required in the construction manual.
> > >
> > > Steve G6ALU
> > >
> > > My web site: www.radio-kits.co.uk

> > >
> > > ----- Original Message -----
> > > From: Jerry A Bligh
> > > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk>
> > > Sent: Thursday, July 24, 2008 3:43 PM
> > > Subject: [mkars80] Nearly finished
> > >
> > > Hi All
> > > All seems to be going to plan according to the instructions.
> > > Just come to install the display and it is not clear which holes in
> > > the display are supposed to line up with the socket beneath. There
> > > does seem to be enough play to move the display one hole either way.
> > > Just a senior moment but could somebody put me straight before I make
> > > a cockup, it would be a shame at this point.
> > >
> > > Regards
> > > Jerry
> > > 2U0BGE
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > > Internal Virus Database is out of date.
> > > Checked by AVG - http://www.avg.com <http://www.avg.com>
> <http://www.avg.com <http://www.avg.com>>
> > <http://www.avg.com <http://www.avg.com> <http://www.avg.com
> <http://www.avg.com>>>
> > > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > > 19/07/2008 14:01
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - http://www.avg.com <http://www.avg.com>
> <http://www.avg.com <http://www.avg.com>>
> > > Version: 8.0.138 / Virus Database: 270.5.5/1571 - Release Date:
> > 24/07/2008 17:42
> > >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> > Internal Virus Database is out of date.
> > Checked by AVG - http://www.avg.com <http://www.avg.com>
> <http://www.avg.com <http://www.avg.com>>

> > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > 19/07/2008 14:01
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - http://www.avg.com <http://www.avg.com>
> > Version: 8.0.138 / Virus Database: 270.5.6/1572 - Release Date:
> 7/25/2008 6:51 AM
> >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com <http://www.avg.com>
> Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> 19/07/2008 14:01
>
> [Non-text portions of this message have been removed]
>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.6/1574 - Release Date: 7/25/2008 4:27 PM
>

Yahoo! Groups Links

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date: 19/07/2008 14:01

[Non-text portions of this message have been removed]

255. Bag 2 problem

Yahoo group: mkars80
Date: 2008-07-28 21:14:23 UTC
From: Paul
Topic: 255 Message: 255

Hi group,

Was glad to finally finish Bag 1 (still a novice kit builder) and was keen to start bag 2 until I found a minor problem.

I have 3x 10pF ceramic capacitors and no 8pF ones in the bag.

I will continue with rest of bag as that seems OK, but what can I do to sort this minor problem out.

Happy with Kit so far and is a far cry from the Morse Oscillator I built to get my 2E, and boy have I learnt loads already.

Thanks in Advance

73

Paul MØTZO

256. Re: [mkars80] Bag 2 problem

Yahoo group: mkars80
Date: 2008-07-28 21:51:18 UTC
From: Steve Drury
Topic: 255 Message: 256

Hi Paul,

Sounds like you are using the wrong version of the instructions, if you purchased the kit recently then you should be using version V1.1.

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Paul
To: mkars80@...
Sent: Monday, July 28, 2008 10:14 PM
Subject: [mkars80] Bag 2 problem

Hi group,

Was glad to finally finish Bag 1 (still a novice kit builder) and was keen to start bag 2 until I found a minor problem.

I have 3x 10pF ceramic capacitors and no 8pF ones in the bag.

I will continue with rest of bag as that seems OK, but what can I do to sort this minor problem out.

Happy with Kit so far and is a far cry from the Morse Oscillator I built to get my 2E, and boy have I learnt loads already.

Thanks in Advance

73

Paul MØTZO

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.6/1578 - Release Date: 28/07/2008 17:13

[Non-text portions of this message have been removed]

257. Re: Bag 2 problem

Yahoo group: mkars80
Date: 2008-07-28 22:00:10 UTC
From: Paul
Topic: 255 Message: 257

Hi Steve,

That's typical of me. 2 manuals & I download the wrong one. Hope bag 1 was the same though.

Back to a double check of bag 1.

73

Paul

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Paul,
>
> Sounds like you are using the wrong version of the instructions, if you purchased the kit recently then you should be using version V1.1.
>
> Regards,
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: Paul
> To: mkars80@....uk
> Sent: Monday, July 28, 2008 10:14 PM
> Subject: [mkars80] Bag 2 problem
>
>
> Hi group,
>
> Was glad to finally finish Bag 1 (still a novice kit builder) and was
> keen to start bag 2 until I found a minor problem.
>
> I have 3x 10pF ceramic capacitors and no 8pF ones in the bag.
>
> I will continue with rest of bag as that seems OK, but what can I do
> to sort this minor problem out.
>
> Happy with Kit so far and is a far cry from the Morse Oscillator I
> built to get my 2E, and boy have I learnt loads already.
>
> Thanks in Advance
>

> 73
>
> Paul MØTZO

258. Re: [mkars80] Re: Bag 2 problem

Yahoo group: mkars80
Date: 2008-07-29 06:59:23 UTC
From: g6alu@tiscali.co.uk
Topic: 255 Message: 258

Don't panic!

You have found the differences... with the first version I managed to pick a hard to obtain choke which had to be changed as well as their associated capacitors.

I had to keep version V1.0 of the manual on the net for the slow builders!

Steve G6ALU

>----Original Message----
>From: paul@...
>Date: 28/07/2008 23:00
>To: <mkars80@....uk>
>Subj: [mkars80] Re: Bag 2 problem
>
>Hi Steve,
>
>That's typical of me. 2 manuals & I download the wrong one. Hope bag 1
>was the same though.
>
>Back to a double check of bag 1.
>
>73
>
>Paul
>
>--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>>
>> Hi Paul,
>>
>> Sounds like you are using the wrong version of the instructions, if
>you purchased the kit recently then you should be using version V1.1.
>>
>> Regards,
>> Steve G6ALU
>>
>> My web site: www.radio-kits.co.uk
>>
>>
>> ----- Original Message -----
>> From: Paul
>> To: mkars80@...
>> Sent: Monday, July 28, 2008 10:14 PM

>> Subject: [mkars80] Bag 2 problem
>>
>>
>> Hi group,
>>
>> Was glad to finally finish Bag 1 (still a novice kit builder) and
was
>> keen to start bag 2 until I found a minor problem.
>>
>> I have 3x 10pF ceramic capacitors and no 8pF ones in the bag.
>>
>> I will continue with rest of bag as that seems OK, but what can I
do
>> to sort this minor problem out.
>>
>> Happy with Kit so far and is a far cry from the Morse Oscillator
I
>> built to get my 2E, and boy have I learnt loads already.
>>
>> Thanks in Advance
>>
>> 73
>>
>> Paul MØTZO
>
>
>----------------------------------
>
>Yahoo! Groups Links
>
>
>
>

Fight the credit crunch; get paid to recycle - http://www.tiscali.co.uk/recycle

----

259. Now another problem

Yahoo group: mkars80
Date: 2008-07-29 22:18:35 UTC
From: ve3xj
Topic: 259 Message: 259

Greetings:

I set the TX bias adjustment to 50 mA greater than when R2 was fully counter-clockwise. I also adjusted the carrier null to as low as possible using a spectrum analyser, but there was still a significant carrier. After plugging the PTT-Mike and headphone plugs, when I key up, the red LED is lit, and the output is a tone, no modulation is heard on another reciever. Any ideas out there what I should look at next? (I stand to be corrected, but could there be a problem with the diode rign mixer, D12,13,14, and 15?)

73

Jim, VE3XJ

260. Re: [mkars80] Now another problem

Yahoo group: mkars80
Date: 2008-07-30 18:23:39 UTC
From: Steve Drury
Topic: 259 Message: 260

Jim,

It sounds like the tone on the other receiver is just the carrier and perhaps the fault is in the Mic amp or modulator. If you short Q3 base to emitter whilst pushing the PTT do you get a loud oscillation from the MKARS80 speaker?

Shorting out Q3 B-E puts the audio amp mute transistor out of circuit allowing the amplified microphone signal to pass straifgt through to the audio amplifier.

Let me know the result.

It should be possible to null the carrier out nearly completely, have you adjusted R59 and C103 together? Note that they are interactive.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: ve3xj
To: mkars80@...
Sent: Tuesday, July 29, 2008 11:18 PM
Subject: [mkars80] Now another problem

Greetings:

I set the TX bias adjustment to 50 mA greater than when R2 was fully counter-clockwise. I also adjusted the carrier null to as low as possible using a spectrum analyser, but there was still a significant carrier. After plugging the PTT-Mike and headphone plugs, when I key up, the red LED is lit, and the output is a tone, no modulation is heard on another reciever. Any ideas out there what I should look at next? (I stand to be corrected, but could there be a problem with the diode rign mixer, D12,13,14, and 15?)

73

Jim, VE3XJ

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.7/1580 - Release Date: 29/07/2008 17:26

[Non-text portions of this message have been removed]

261. My MKAS80 update

Yahoo group: mkars80
Date: 2008-08-01 08:30:24 UTC
From: mb130853
Topic: 261 Message: 261

Hi Steve

Completed the alignment last night and managed to keep the smoke in the components. The setup is very easy and once you get the test gear powers up only takes a few minutes.

I managed to receive a few German stations, a GW and MW in conversation and a Morse practice session.

I only had an 80 metre mobile whip with no ground plain, so I was very pleased with the performance.

Now to the part I find difficult, the cabinet.

I am planning to give listeners a fuller account of my progress my next Podcast scheduled for recording this Sunday. This can be found at www.icqpodcast.com.

73's Martin

262. Re: Now another problem

Yahoo group: mkars80
Date: 2008-08-01 15:56:53 UTC
From: ve3xj
Topic: 259 Message: 262

Hi Steve:

OK I shorted the B-E leads of Q3. I could still hear background noise, but the oscillation was not what I would call loud and it varied in tone (due to body capacitance, I don't know.) I also checked the voltages on Q2 and Q4 and they were all within .3 volts according to the chart (probably due to meter error. I must admit that I really should invest in a good quality DVM. But then again, having just retired from the public service, "good enough for government work" is often indeed sufficient HI HI!)

I am wondering if I might be looking at T5 to see if that is the problem. I recall seeing a response from you to another chap and you told him his problem was that the enamel on one of his transformers had not burnt off enough, due to the use of an insufficiently heated iron. I have another soldering iron which I believe is in the 50 watt range and I could warm that up and heat the board connections...)

By the way, a somewhat interesting note on Q3. When I was parts stuffing a while back, I lost the transistor... somehow got brushed off the work space and I had no idea where it went as the carpeting in the shack is mottled and dark - impossible to find and retrieve short of getting a vacuum cleaner out...) Anyways, I found a replacement - an NTE123AP (an NTE123A is also indicated, but the device is in a can with a tab indicating the emitter lead). Now despite the warming from NTE that the lead pin-out were reversed, with respect to the key information, I guess I had a senior's moment and installed it wrong. Realizing that last night, and after re-orinting it properly, I had hopes that I had solved my problem. As I emailed my friend VE3EUR - NOPE!. When I hit the send button, I am going to give Pat another phone call and see if we can brainstorm some more...

I sure do hope to have this done by 14 August - it is the monthly get-together of the OVQRP (Ottawa Valley QRP group) to show it off... Maybe even get the varactor tuning circuit installed.

73

Jim, VE3XJ

P.S. Yes, I knew that R59 and C103 were interactive so I would tune one to minimum and then tune the other for minimum. I noticed that C103 was critical (that is to say, it did not take much rotation to notice the change) while with R59, initially there was an obvious change, but at the point of the lowest minimum, I could turn the pot control two or three times either way before there was any change...

I think I am going to stay away from the spec-A the next time I do this adjustment, it just make life too complicated for the benefits recieved - I'll just use one of my recievers in the shack...

--- In mkars80@....uk, "Steve Drury" <g6alu@...> wrote:
>
> Jim,
>
> It sounds like the tone on the other receiver is just the carrier and perhaps the fault is in the Mic amp or modulator. If you short Q3 base to emitter whilst pushing the PTT do you get a loud oscillation from the MKARS80 speaker?
>
> Shorting out Q3 B-E puts the audio amp mute transistor out of circuit allowing the amplified microphone signal to pass straifgt through to the audio amplifier.
>
> Let me know the result.
>
> It should be possible to null the carrier out nearly completely, have you adjusted R59 and C103 together? Note that they are interactive.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: ve3xj
> To: mkars80@...
> Sent: Tuesday, July 29, 2008 11:18 PM
> Subject: [mkars80] Now another problem
>
>
> Greetings:
>
> I set the TX bias adjustment to 50 mA greater than when R2 was fully
> counter-clockwise. I also adjusted the carrier null to as low as
> possible using a spectrum analyser, but there was still a significant
> carrier. After plugging the PTT-Mike and headphone plugs, when I key
> up, the red LED is lit, and the output is a tone, no modulation is
> heard on another reciever. Any ideas out there what I should look at
> next? (I stand to be corrected, but could there be a problem with the

> diode rign mixer, D12,13,14, and 15?)
>
> 73
>
> Jim, VE3XJ
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.7/1580 - Release Date:
29/07/2008 17:26
>
>
>
>
> [Non-text portions of this message have been removed]
>

263. Re: Now another problem

Yahoo group: mkars80
Date: 2008-08-01 16:14:19 UTC
From: ve3xj
Topic: 259 Message: 263

Steve:

I should have done this before sending the last message... I measured the voltages on Q3... Nil on recieve, as excpected, but on transmit, the base lead shows 3 millivolts, a far cry from what is indicated in the chart. I am scratching my head because that is a new transistor....

Jim, VE3XJ

--- In mkars80@..., "ve3xj" <ve3xj@...> wrote:
>
> Hi Steve:
>
> OK I shorted the B-E leads of Q3. I could still hear background
> noise, but the oscillation was not what I would call loud and it
> varied in tone (due to body capacitance, I don't know.) I also
> checked the voltages on Q2 and Q4 and they were all within .3 volts
> according to the chart (probably due to meter error. I must admit
> that I really should invest in a good quality DVM. But then again,
> having just retired from the public service, "good enough for
> government work" is often indeed sufficient HI HI!)
>
> I am wondering if I might be looking at T5 to see if that is the
> problem. I recall seeing a response from you to another chap and
you
> told him his problem was that the enamel on one of his transformers
> had not burnt off enough, due to the use of an insufficiently
heated
> iron. I have another soldering iron which I believe is in the 50
> watt range and I could warm that up and heat the board
connections...)
>
> By the way, a somewhat interesting note on Q3. When I was parts
> stuffing a while back, I lost the transistor... somehow got
brushed
> off the work space and I had no idea where it went as the carpeting
> in the shack is mottled and dark - impossible to find and retrieve
> short of getting a vacuum cleaner out...) Anyways, I found a
> replacement - an NTE123AP (an NTE123A is also indicated, but the
> device is in a can with a tab indicating the emitter lead). Now
> despite the warming from NTE that the lead pin-out were reversed,
> with respect to the key information, I guess I had a senior's
moment
> and installed it wrong. Realizing that last night, and after re-
> orinting it properly, I had hopes that I had solved my problem. As

I
> emailed my friend VE3EUR - NOPE!. When I hit the send button, I am
> going to give Pat another phone call and see if we can brainstorm
> some more...
>
> I sure do hope to have this done by 14 August - it is the monthly
get-
> together of the OVQRP (Ottawa Valley QRP group) to show it off...
> Maybe even get the varactor tuning circuit installed.
>
> 73
>
> Jim, VE3XJ
>
> P.S. Yes, I knew that R59 and C103 were interactive so I would
tune
> one to minimum and then tune the other for minimum. I noticed that
> C103 was critical (that is to say, it did not take much rotation to
> notice the change) while with R59, initially there was an obvious
> change, but at the point of the lowest minimum, I could turn the
pot
> control two or three times either way before there was any
change...
> I think I am going to stay away from the spec-A the next time I do
> this adjustment, it just make life too complicated for the benefits
> recieved - I'll just use one of my recievers in the shack...
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Jim,
> >
> > It sounds like the tone on the other receiver is just the carrier
> and perhaps the fault is in the Mic amp or modulator. If you short
Q3
> base to emitter whilst pushing the PTT do you get a loud
oscillation
> from the MKARS80 speaker?
> >
> > Shorting out Q3 B-E puts the audio amp mute transistor out of
> circuit allowing the amplified microphone signal to pass straifgt
> through to the audio amplifier.
> >
> > Let me know the result.
> >
> > It should be possible to null the carrier out nearly completely,
> have you adjusted R59 and C103 together? Note that they are
> interactive.
> >
> > Steve G6ALU

> >
> > My web site: www.radio-kits.co.uk
> >
> >
> > ----- Original Message -----
> > From: ve3xj
> > To: mkars80@...
> > Sent: Tuesday, July 29, 2008 11:18 PM
> > Subject: [mkars80] Now another problem
> >
> >
> > Greetings:
> >
> > I set the TX bias adjustment to 50 mA greater than when R2 was
> fully
> > counter-clockwise. I also adjusted the carrier null to as low
as
> > possible using a spectrum analyser, but there was still a
> significant
> > carrier. After plugging the PTT-Mike and headphone plugs, when
I
> key
> > up, the red LED is lit, and the output is a tone, no modulation
> is
> > heard on another reciever. Any ideas out there what I should
> look at
> > next? (I stand to be corrected, but could there be a problem
> with the
> > diode rign mixer, D12,13,14, and 15?)
> >
> > 73
> >
> > Jim, VE3XJ
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - http://www.avg.com
> > Version: 8.0.138 / Virus Database: 270.5.7/1580 - Release Date:
> 29/07/2008 17:26
> >
> >
> >

> >
> > [Non-text portions of this message have been removed]
> >
>

264. Re: [mkars80] Re: Now another problem

Yahoo group: mkars80
Date: 2008-08-01 16:29:14 UTC
From: Steve Drury
Topic: 259 Message: 264

Jim,
Sounds like a problem on Q3 if there is no volts on its base even in TX. Check the volts across R5 in TX, one side should be abot 12 the other 0.6 - 0.7. Check for a short circuit transistor or perhaps a solder splash.

See also my next message to Jerry re the output transistor.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: ve3xj
To: mkars80@...
Sent: Friday, August 01, 2008 5:14 PM
Subject: [mkars80] Re: Now another problem

Steve:

I should have done this before sending the last message... I measured the voltages on Q3... Nil on recieve, as excpected, but on transmit, the base lead shows 3 millivolts, a far cry from what is indicated in the chart. I am scratching my head because that is a new transistor....

Jim, VE3XJ

--- In mkars80@..., "ve3xj" <ve3xj@...> wrote:
>
> Hi Steve:
>
> OK I shorted the B-E leads of Q3. I could still hear background
> noise, but the oscillation was not what I would call loud and it
> varied in tone (due to body capacitance, I don't know.) I also
> checked the voltages on Q2 and Q4 and they were all within .3 volts
> according to the chart (probably due to meter error. I must admit
> that I really should invest in a good quality DVM. But then again,
> having just retired from the public service, "good enough for
> government work" is often indeed sufficient HI HI!)
>
> I am wondering if I might be looking at T5 to see if that is the
> problem. I recall seeing a response from you to another chap and
you
> told him his problem was that the enamel on one of his transformers
> had not burnt off enough, due to the use of an insufficiently
heated
> iron. I have another soldering iron which I believe is in the 50

> watt range and I could warm that up and heat the board
connections...)
>
> By the way, a somewhat interesting note on Q3. When I was parts
> stuffing a while back, I lost the transistor... somehow got
brushed
> off the work space and I had no idea where it went as the carpeting
> in the shack is mottled and dark - impossible to find and retrieve
> short of getting a vacuum cleaner out...) Anyways, I found a
> replacement - an NTE123AP (an NTE123A is also indicated, but the
> device is in a can with a tab indicating the emitter lead). Now
> despite the warming from NTE that the lead pin-out were reversed,
> with respect to the key information, I guess I had a senior's
moment
> and installed it wrong. Realizing that last night, and after re-
> orinting it properly, I had hopes that I had solved my problem. As
I
> emailed my friend VE3EUR - NOPE!. When I hit the send button, I am
> going to give Pat another phone call and see if we can brainstorm
> some more...
>
> I sure do hope to have this done by 14 August - it is the monthly
get-
> together of the OVQRP (Ottawa Valley QRP group) to show it off...
> Maybe even get the varactor tuning circuit installed.
>
> 73
>
> Jim, VE3XJ
>
> P.S. Yes, I knew that R59 and C103 were interactive so I would
tune
> one to minimum and then tune the other for minimum. I noticed that
> C103 was critical (that is to say, it did not take much rotation to
> notice the change) while with R59, initially there was an obvious
> change, but at the point of the lowest minimum, I could turn the
pot
> control two or three times either way before there was any
change...
> I think I am going to stay away from the spec-A the next time I do
> this adjustment, it just make life too complicated for the benefits
> recieved - I'll just use one of my recievers in the shack...
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Jim,
> >
> > It sounds like the tone on the other receiver is just the carrier
> and perhaps the fault is in the Mic amp or modulator. If you short

Q3
> base to emitter whilst pushing the PTT do you get a loud
oscillation
> from the MKARS80 speaker?
> >
> > Shorting out Q3 B-E puts the audio amp mute transistor out of
> circuit allowing the amplified microphone signal to pass straifgt
> through to the audio amplifier.
> >
> > Let me know the result.
> >
> > It should be possible to null the carrier out nearly completely,
> have you adjusted R59 and C103 together? Note that they are
> interactive.
> >
> > Steve G6ALU
> >
> > My web site: www.radio-kits.co.uk
> >
> >
> > ----- Original Message -----
> > From: ve3xj
> > To: mkars80@...
> > Sent: Tuesday, July 29, 2008 11:18 PM
> > Subject: [mkars80] Now another problem
> >
> >
> > Greetings:
> >
> > I set the TX bias adjustment to 50 mA greater than when R2 was
> fully
> > counter-clockwise. I also adjusted the carrier null to as low
as
> > possible using a spectrum analyser, but there was still a
> significant
> > carrier. After plugging the PTT-Mike and headphone plugs, when
I
> key
> > up, the red LED is lit, and the output is a tone, no modulation
> is
> > heard on another reciever. Any ideas out there what I should
> look at
> > next? (I stand to be corrected, but could there be a problem
> with the
> > diode rign mixer, D12,13,14, and 15?)
> >
> > 73
> >
> > Jim, VE3XJ
> >

> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - http://www.avg.com
> > Version: 8.0.138 / Virus Database: 270.5.7/1580 - Release Date:
> 29/07/2008 17:26
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date: 01/08/2008 06:39

[Non-text portions of this message have been removed]

265. Re: [mkars80] Going backwards

Yahoo group: mkars80
Date: 2008-08-01 16:37:51 UTC
From: Steve Drury
Topic: 244 Message: 265

Jerry,
Received the radio for repair today and after a few minutes located your problem; Q3 (mute transistor) was being turned on by a small voltage on the TX12V rail which comes from the relay.

How could this happen? A clue to the answer is in your comment "all of a sudden the normal high volume disappeared. I
subsequently found out that the output transistor had got a bit hot".

You accidentally let the smoke out of the output transistor which subsequently went Drain / Gate leaky; there was 7V on the drain which worked its way through the bias circuit onto the TX12V rail! Snipping the sick transistor out of circuit cured the problem.

I will replace the transistor and give it a good check over and adjustment, as always there is no charge for parts but I would be grateful if you could refund my postage.

Regards,
Steve G6ALU

PS This is a nicely built radio, its a pity you had a problem.

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@...
Sent: Sunday, July 27, 2008 6:03 PM
Subject: [mkars80] Going backwards

Hi Steve

Good news and bad news I think I am going backwards
For those builders wanting to use it on the US 80 meter band up to 4Mhz
all they need to do is add a couple of turns to L5 and they have it
cracked, in my instance I corrected my problem by taking a couple off as
I obviously had to many.
Now the bad news, whilst aligning the oscillator to correct the above
problem, all of a sudden the normal high volume disappeared. I
subsequently found out that the output transistor had got a bit hot, I
think it may have bent over and shorted out to something.
That may pose a problem when I come to try to TX. I want to get it
reeiving properly first.
I have carried out the following.
Inserted an AF tone to pin three of chip 1, there is an output but not
ear splitting I would have expected more.
inserting the tone from one end of R28 gives an output but not from the
other side furthest from IC1

R28 resistor is OK
Checked the 4K7 resistor and tried another speaker as discussed on the forum
Checked all receive voltages on transistors and IC1 all seem to be close
Also injected a tone into Q6 nothing out of speaker
I also tried the set last night, plenty of signals and very clear just
very feint
Any ideas please as I am running out of them now I have been round the
possibilities so many times I can't see the wood for the trees.
Regards
Jerry
2U0BGE

Steve Drury wrote:
>
> Jerry,
>
> Remember that the IF is ABOVE the signal and oscillator frequency,
> this means if the oscillator is running low in frequency the tuned
> frequency will be high.
>
> If you think there are more than 40 turns on the oscillator inductor
> (L5) and haven't glued the to the board yet I recommend you remove it
> and count the turns. I haven't found this problem before.....
>
> With regard suggestions for the build manual and the next revision;
> perhaps we can start a new subject so I can find the changes easily
> when the time comes to do the new release.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Jerry A Bligh
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Friday, July 25, 2008 5:37 PM
> Subject: Re: [mkars80] Nearly finished
>
> Hi Steve
> All finished and the receiver worked well last night.
> I connected up the display following your instructions and that is
> working fine as well.
> As far as the receiver is concerned I now only have one minor problem, I
> cannot adjust C38 far enough to read 3.45 Mhz.
> I suspect it may be to do with the windings on L5 which should be 4.8uH,
> my coil is, as I checked it on a PEAK inductance meter before I fitted
> it although I am suspicious that it may have one or two more turns
> than 40.
> Any ideas?
> When my mike arrives I will have a go with the TX.

> On talking about extra pictures in the build manual, you may want to add
> something to the second para under construction on page 3 the LED is
> also mounted on the other side of the PCB. Only a comment which might be
> useful to the less experienced builder.
> From my own perspective this has been one of the nicest kits I have
> built and I have built a few.
> So thanks for all your effort in developing it and also your continued
> enthusiasm in helping to resolve problems.
> Regards
> Jerry
> 2U0BGE
>
> Steve Drury wrote:
> >
> > Stations will be louder in the evening, remember that 80M radios
> > benefit from decent size antenna - I use a full size G5RV, signals are
> > VERY loud!
> >
> > Steve G6ALU
> >
> > My web site: www.radio-kits.co.uk
> >
> > ----- Original Message -----
> > From: Jerry A Bligh
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Thursday, July 24, 2008 8:53 PM
> > Subject: Re: [mkars80] Nearly finished
> >
> > Hi Steve
> > Thanks for the quick solution, just as an update I got the set working
> > this afternoon and although there was plenty of loud hiss in the speaker
> > the odd station I got was quite feint.
> > I will be trying it again tonight when hopefully there will be a number
> > of strong signals around.
> > So here's hoping
> > Regards
> > Jerry
> > 2U0BGE
> >
> > Steve Drury wrote:
> > >
> > > Jerry,
> > >
> > > Its the left-hand most holes, if you are unsure have a look at the 2nd
> > > prototype picture in the groups photo section.
> > >
> > > Sounds like another photo is required in the construction manual.
> > >
> > > Steve G6ALU

> > >
> > > My web site: www.radio-kits.co.uk
> > >
> > > ----- Original Message -----
> > > From: Jerry A Bligh
> > > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk>
> > > Sent: Thursday, July 24, 2008 3:43 PM
> > > Subject: [mkars80] Nearly finished
> > >
> > > Hi All
> > > All seems to be going to plan according to the instructions.
> > > Just come to install the display and it is not clear which holes in
> > > the display are supposed to line up with the socket beneath. There
> > > does seem to be enough play to move the display one hole either way.
> > > Just a senior moment but could somebody put me straight before I make
> > > a cockup, it would be a shame at this point.
> > >
> > > Regards
> > > Jerry
> > > 2U0BGE
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > > Internal Virus Database is out of date.
> > > Checked by AVG - http://www.avg.com <http://www.avg.com>
> <http://www.avg.com <http://www.avg.com>>
> > <http://www.avg.com <http://www.avg.com> <http://www.avg.com
> <http://www.avg.com>>>
> > > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > > 19/07/2008 14:01
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - http://www.avg.com <http://www.avg.com>
> <http://www.avg.com <http://www.avg.com>>
> > > Version: 8.0.138 / Virus Database: 270.5.5/1571 - Release Date:
> > 24/07/2008 17:42
> > >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> > Internal Virus Database is out of date.

> > Checked by AVG - http://www.avg.com <http://www.avg.com>
> <http://www.avg.com <http://www.avg.com>>
> > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > 19/07/2008 14:01
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - http://www.avg.com <http://www.avg.com>
> > Version: 8.0.138 / Virus Database: 270.5.6/1572 - Release Date:
> 7/25/2008 6:51 AM
> >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com <http://www.avg.com>
> Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> 19/07/2008 14:01
>
> [Non-text portions of this message have been removed]
>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.6/1574 - Release Date: 7/25/2008 4:27 PM
>

Yahoo! Groups Links

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date: 19/07/2008 14:01

[Non-text portions of this message have been removed]

266. RE: [mkars80] Going backwards

Yahoo group: mkars80
Date: 2008-08-01 16:59:44 UTC
From: Jerry A Bligh
Topic: 244 Message: 266

Hi Steve

Wow that was quick

WHATS IT LIKE TO BE A SUPER HERO

I suspect that you have seen it all before what with the number of builders.

Please let me know the postage so that I can reimburse you immediately.

Thanks again

Jerry

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 01 August 2008 17:38
To: mkars80@...
Subject: Re: [mkars80] Going backwards

Jerry,
Received the radio for repair today and after a few minutes located your
problem; Q3 (mute transistor) was being turned on by a small voltage on the
TX12V rail which comes from the relay.

How could this happen? A clue to the answer is in your comment "all of a
sudden the normal high volume disappeared. I
subsequently found out that the output transistor had got a bit hot".

You accidentally let the smoke out of the output transistor which
subsequently went Drain / Gate leaky; there was 7V on the drain which worked
its way through the bias circuit onto the TX12V rail! Snipping the sick
transistor out of circuit cured the problem.

I will replace the transistor and give it a good check over and adjustment,
as always there is no charge for parts but I would be grateful if you could
refund my postage.

Regards,
Steve G6ALU

PS This is a nicely built radio, its a pity you had a problem.

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk

Sent: Sunday, July 27, 2008 6:03 PM
Subject: [mkars80] Going backwards

Hi Steve

Good news and bad news I think I am going backwards
For those builders wanting to use it on the US 80 meter band up to 4Mhz all they need to do is add a couple of turns to L5 and they have it cracked, in my instance I corrected my problem by taking a couple off as I obviously had to many.
Now the bad news, whilst aligning the oscillator to correct the above problem, all of a sudden the normal high volume disappeared. I subsequently found out that the output transistor had got a bit hot, I think it may have bent over and shorted out to something.
That may pose a problem when I come to try to TX. I want to get it reeiving properly first.
I have carried out the following.
Inserted an AF tone to pin three of chip 1, there is an output but not ear splitting I would have expected more.
inserting the tone from one end of R28 gives an output but not from the other side furthest from IC1
R28 resistor is OK
Checked the 4K7 resistor and tried another speaker as discussed on the forum
Checked all receive voltages on transistors and IC1 all seem to be close
Also injected a tone into Q6 nothing out of speaker
I also tried the set last night, plenty of signals and very clear just very feint
Any ideas please as I am running out of them now I have been round the possibilities so many times I can't see the wood for the trees.
Regards
Jerry
2U0BGE

Steve Drury wrote:
>
> Jerry,
>
> Remember that the IF is ABOVE the signal and oscillator frequency,
> this means if the oscillator is running low in frequency the tuned
> frequency will be high.
>
> If you think there are more than 40 turns on the oscillator inductor
> (L5) and haven't glued the to the board yet I recommend you remove it
> and count the turns. I haven't found this problem before.....
>
> With regard suggestions for the build manual and the next revision;
> perhaps we can start a new subject so I can find the changes easily
> when the time comes to do the new release.
>
> Steve G6ALU
>

> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Jerry A Bligh
> To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> Sent: Friday, July 25, 2008 5:37 PM
> Subject: Re: [mkars80] Nearly finished
>
> Hi Steve
> All finished and the receiver worked well last night.
> I connected up the display following your instructions and that is
> working fine as well.
> As far as the receiver is concerned I now only have one minor problem, I
> cannot adjust C38 far enough to read 3.45 Mhz.
> I suspect it may be to do with the windings on L5 which should be 4.8uH,
> my coil is, as I checked it on a PEAK inductance meter before I fitted
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> than 40.
> Any ideas?
> When my mike arrives I will have a go with the TX.
> On talking about extra pictures in the build manual, you may want to add
> something to the second para under construction on page 3 the LED is
> also mounted on the other side of the PCB. Only a comment which might be
> useful to the less experienced builder.
> From my own perspective this has been one of the nicest kits I have
> built and I have built a few.
> So thanks for all your effort in developing it and also your continued
> enthusiasm in helping to resolve problems.
> Regards
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> Steve Drury wrote:
> >
> > Stations will be louder in the evening, remember that 80M radios
> > benefit from decent size antenna - I use a full size G5RV, signals are
> > VERY loud!
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> > My web site: www.radio-kits.co.uk
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> > ----- Original Message -----
> > From: Jerry A Bligh
> > To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Thursday, July 24, 2008 8:53 PM
> > Subject: Re: [mkars80] Nearly finished

> >
> > Hi Steve
> > Thanks for the quick solution, just as an update I got the set working
> > this afternoon and although there was plenty of loud hiss in the speaker
> > the odd station I got was quite feint.
> > I will be trying it again tonight when hopefully there will be a number
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> > So here's hoping
> > Regards
> > Jerry
> > 2U0BGE
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> > > Jerry,
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> > > Its the left-hand most holes, if you are unsure have a look at the 2nd
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> > > From: Jerry A Bligh
> > > To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk>
> > > Sent: Thursday, July 24, 2008 3:43 PM
> > > Subject: [mkars80] Nearly finished
> > >
> > > Hi All
> > > All seems to be going to plan according to the instructions.
> > > Just come to install the display and it is not clear which holes in
> > > the display are supposed to line up with the socket beneath. There
> > > does seem to be enough play to move the display one hole either way.
> > > Just a senior moment but could somebody put me straight before I make
> > > a cockup, it would be a shame at this point.
> > >
> > > Regards
> > > Jerry
> > > 2U0BGE
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >

> > > Internal Virus Database is out of date.
> > > Checked by AVG - http://www.avg. <http://www.avg.com> com
<http://www.avg. <http://www.avg.com> com>
> <http://www.avg. <http://www.avg.com> com <http://www.avg.
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> > <http://www.avg. <http://www.avg.com> com <http://www.avg.
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> <http://www.avg. <http://www.avg.com> com>>>
> > > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > > 19/07/2008 14:01
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - http://www.avg. <http://www.avg.com> com
<http://www.avg. <http://www.avg.com> com>
> <http://www.avg. <http://www.avg.com> com <http://www.avg.
<http://www.avg.com> com>>
> > > Version: 8.0.138 / Virus Database: 270.5.5/1571 - Release Date:
> > 24/07/2008 17:42
> > >
> >
> > ------------------------------------
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> >
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<http://www.avg. <http://www.avg.com> com>
> <http://www.avg. <http://www.avg.com> com <http://www.avg.
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> > 19/07/2008 14:01
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> > Version: 8.0.138 / Virus Database: 270.5.6/1572 - Release Date:
> 7/25/2008 6:51 AM
> >
>
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<http://www.avg.com> com>
> Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> 19/07/2008 14:01
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>
>
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> Checked by AVG - http://www.avg. <http://www.avg.com> com
> Version: 8.0.138 / Virus Database: 270.5.6/1574 - Release Date: 7/25/2008
4:27 PM
>

Yahoo! Groups Links

Internal Virus Database is out of date.
Checked by AVG - http://www.avg. <http://www.avg.com> com
Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date: 19/07/2008
14:01

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date: 8/1/2008
6:39 AM

[Non-text portions of this message have been removed]

267. Re: [mkars80] Going backwards

Yahoo group: mkars80
Date: 2008-08-01 17:36:01 UTC
From: Steve Drury
Topic: 244 Message: 267

I will post it back Monday Jerry and let you know the cost... does it need a CN22 to Guernsey?

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@...
Sent: Friday, August 01, 2008 5:59 PM
Subject: RE: [mkars80] Going backwards

Hi Steve

Wow that was quick

WHATS IT LIKE TO BE A SUPER HERO

I suspect that you have seen it all before what with the number of builders.

Please let me know the postage so that I can reimburse you immediately.

Thanks again

Jerry

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 01 August 2008 17:38
To: mkars80@...
Subject: Re: [mkars80] Going backwards

Jerry,
Received the radio for repair today and after a few minutes located your problem; Q3 (mute transistor) was being turned on by a small voltage on the TX12V rail which comes from the relay.

How could this happen? A clue to the answer is in your comment "all of a sudden the normal high volume disappeared. I
subsequently found out that the output transistor had got a bit hot".

You accidentally let the smoke out of the output transistor which subsequently went Drain / Gate leaky; there was 7V on the drain which worked its way through the bias circuit onto the TX12V rail! Snipping the sick transistor out of circuit cured the problem.

I will replace the transistor and give it a good check over and adjustment, as always there is no charge for parts but I would be grateful if you could refund my postage.

Regards,
Steve G6ALU

PS This is a nicely built radio, its a pity you had a problem.

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
Sent: Sunday, July 27, 2008 6:03 PM
Subject: [mkars80] Going backwards

Hi Steve

Good news and bad news I think I am going backwards
For those builders wanting to use it on the US 80 meter band up to 4Mhz all they need to do is add a couple of turns to L5 and they have it cracked, in my instance I corrected my problem by taking a couple off as I obviously had to many.
Now the bad news, whilst aligning the oscillator to correct the above problem, all of a sudden the normal high volume disappeared. I subsequently found out that the output transistor had got a bit hot, I think it may have bent over and shorted out to something.
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I have carried out the following.
Inserted an AF tone to pin three of chip 1, there is an output but not ear splitting I would have expected more.
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R28 resistor is OK
Checked the 4K7 resistor and tried another speaker as discussed on the forum
Checked all receive voltages on transistors and IC1 all seem to be close
Also injected a tone into Q6 nothing out of speaker
I also tried the set last night, plenty of signals and very clear just very feint
Any ideas please as I am running out of them now I have been round the possibilities so many times I can't see the wood for the trees.
Regards
Jerry
2U0BGE

Steve Drury wrote:
>
> Jerry,
>
> Remember that the IF is ABOVE the signal and oscillator frequency,
> this means if the oscillator is running low in frequency the tuned

> frequency will be high.
>
> If you think there are more than 40 turns on the oscillator inductor
> (L5) and haven't glued the to the board yet I recommend you remove it
> and count the turns. I haven't found this problem before.....
>
> With regard suggestions for the build manual and the next revision;
> perhaps we can start a new subject so I can find the changes easily
> when the time comes to do the new release.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Jerry A Bligh
> To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> Sent: Friday, July 25, 2008 5:37 PM
> Subject: Re: [mkars80] Nearly finished
>
> Hi Steve
> All finished and the receiver worked well last night.
> I connected up the display following your instructions and that is
> working fine as well.
> As far as the receiver is concerned I now only have one minor problem, I
> cannot adjust C38 far enough to read 3.45 Mhz.
> I suspect it may be to do with the windings on L5 which should be 4.8uH,
> my coil is, as I checked it on a PEAK inductance meter before I fitted
> it although I am suspicious that it may have one or two more turns
> than 40.
> Any ideas?
> When my mike arrives I will have a go with the TX.
> On talking about extra pictures in the build manual, you may want to add
> something to the second para under construction on page 3 the LED is
> also mounted on the other side of the PCB. Only a comment which might be
> useful to the less experienced builder.
> From my own perspective this has been one of the nicest kits I have
> built and I have built a few.
> So thanks for all your effort in developing it and also your continued
> enthusiasm in helping to resolve problems.
> Regards
> Jerry
> 2U0BGE
>
> Steve Drury wrote:
> >
> > Stations will be louder in the evening, remember that 80M radios
> > benefit from decent size antenna - I use a full size G5RV, signals are
> > VERY loud!

> >
> > Steve G6ALU
> >
> > My web site: www.radio-kits.co.uk
> >
> > ----- Original Message -----
> > From: Jerry A Bligh
> > To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Thursday, July 24, 2008 8:53 PM
> > Subject: Re: [mkars80] Nearly finished
> >
> > Hi Steve
> > Thanks for the quick solution, just as an update I got the set working
> > this afternoon and although there was plenty of loud hiss in the speaker
> > the odd station I got was quite feint.
> > I will be trying it again tonight when hopefully there will be a number
> > of strong signals around.
> > So here's hoping
> > Regards
> > Jerry
> > 2U0BGE
> >
> > Steve Drury wrote:
> > >
> > > Jerry,
> > >
> > > Its the left-hand most holes, if you are unsure have a look at the 2nd
> > > prototype picture in the groups photo section.
> > >
> > > Sounds like another photo is required in the construction manual.
> > >
> > > Steve G6ALU
> > >
> > > My web site: www.radio-kits.co.uk
> > >
> > > ----- Original Message -----
> > > From: Jerry A Bligh
> > > To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk>
> > > Sent: Thursday, July 24, 2008 3:43 PM
> > > Subject: [mkars80] Nearly finished
> > >
> > > Hi All
> > > All seems to be going to plan according to the instructions.
> > > Just come to install the display and it is not clear which holes in
> > > the display are supposed to line up with the socket beneath. There

> > > does seem to be enough play to move the display one hole either way.
> > > Just a senior moment but could somebody put me straight before I make
> > > a cockup, it would be a shame at this point.
> > >
> > > Regards
> > > Jerry
> > > 2U0BGE
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > > Internal Virus Database is out of date.
> > > Checked by AVG - http://www.avg. <http://www.avg.com> com
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> <http://www.avg. <http://www.avg.com> com <http://www.avg.
<http://www.avg.com> com>>
> > <http://www.avg. <http://www.avg.com> com <http://www.avg.
<http://www.avg.com> com> <http://www.avg. <http://www.avg.com> com
> <http://www.avg. <http://www.avg.com> com>>>
> > > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > > 19/07/2008 14:01
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - http://www.avg. <http://www.avg.com> com
<http://www.avg. <http://www.avg.com> com>
> <http://www.avg. <http://www.avg.com> com <http://www.avg.
<http://www.avg.com> com>>
> > > Version: 8.0.138 / Virus Database: 270.5.5/1571 - Release Date:
> > 24/07/2008 17:42
> > >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> > Internal Virus Database is out of date.
> > Checked by AVG - http://www.avg. <http://www.avg.com> com
<http://www.avg. <http://www.avg.com> com>
> <http://www.avg. <http://www.avg.com> com <http://www.avg.
<http://www.avg.com> com>>
> > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > 19/07/2008 14:01
> >
> > [Non-text portions of this message have been removed]
> >
> >

> > No virus found in this incoming message.
> > Checked by AVG - http://www.avg. <http://www.avg.com> com
<http://www.avg. <http://www.avg.com> com>
> > Version: 8.0.138 / Virus Database: 270.5.6/1572 - Release Date:
> 7/25/2008 6:51 AM
> >
>
> ---
>
> Yahoo! Groups Links
>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg. <http://www.avg.com> com <http://www.avg.
<http://www.avg.com> com>
> Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> 19/07/2008 14:01
>
> [Non-text portions of this message have been removed]
>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg. <http://www.avg.com> com
> Version: 8.0.138 / Virus Database: 270.5.6/1574 - Release Date: 7/25/2008
4:27 PM
>

Yahoo! Groups Links

Internal Virus Database is out of date.
Checked by AVG - http://www.avg. <http://www.avg.com> com
Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date: 19/07/2008
14:01

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date: 8/1/2008
6:39 AM

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date: 01/08/2008 06:39

[Non-text portions of this message have been removed]

268. RE: [mkars80] Going backwards

Yahoo group: mkars80
Date: 2008-08-01 20:34:03 UTC
From: Jerry A Bligh
Topic: 244 Message: 268

Hi Steve

More than likely they always make our lives as difficult as possible.
Thanks again
Jerry
2U0BGE

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On
Behalf Of Steve Drury
Sent: 01 August 2008 18:36
To: mkars80@...
Subject: Re: [mkars80] Going backwards

I will post it back Monday Jerry and let you know the cost... does it
need a CN22 to Guernsey?

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
Sent: Friday, August 01, 2008 5:59 PM
Subject: RE: [mkars80] Going backwards

Hi Steve

Wow that was quick

WHATS IT LIKE TO BE A SUPER HERO

I suspect that you have seen it all before what with the number of
builders.

Please let me know the postage so that I can reimburse you immediately.

Thanks again

Jerry

-----Original Message-----
From: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
[mailto:mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk]
On Behalf
Of Steve Drury
Sent: 01 August 2008 17:38

To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
Subject: Re: [mkars80] Going backwards

Jerry,
Received the radio for repair today and after a few minutes located your problem; Q3 (mute transistor) was being turned on by a small voltage on the
TX12V rail which comes from the relay.

How could this happen? A clue to the answer is in your comment "all of a sudden the normal high volume disappeared. I
subsequently found out that the output transistor had got a bit hot".

You accidentally let the smoke out of the output transistor which subsequently went Drain / Gate leaky; there was 7V on the drain which worked
its way through the bias circuit onto the TX12V rail! Snipping the sick transistor out of circuit cured the problem.

I will replace the transistor and give it a good check over and adjustment,
as always there is no charge for parts but I would be grateful if you could
refund my postage.

Regards,
Steve G6ALU

PS This is a nicely built radio, its a pity you had a problem.

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Jerry A Bligh
To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
Sent: Sunday, July 27, 2008 6:03 PM
Subject: [mkars80] Going backwards

Hi Steve

Good news and bad news I think I am going backwards
For those builders wanting to use it on the US 80 meter band up to 4Mhz all they need to do is add a couple of turns to L5 and they have it cracked, in my instance I corrected my problem by taking a couple off as

I obviously had to many.
Now the bad news, whilst aligning the oscillator to correct the above problem, all of a sudden the normal high volume disappeared. I
subsequently found out that the output transistor had got a bit hot, I think it may have bent over and shorted out to something.
That may pose a problem when I come to try to TX. I want to get it reeiving properly first.
I have carried out the following.

Inserted an AF tone to pin three of chip 1, there is an output but not ear splitting I would have expected more.
inserting the tone from one end of R28 gives an output but not from the other side furthest from IC1
R28 resistor is OK
Checked the 4K7 resistor and tried another speaker as discussed on the forum
Checked all receive voltages on transistors and IC1 all seem to be close
Also injected a tone into Q6 nothing out of speaker
I also tried the set last night, plenty of signals and very clear just very feint
Any ideas please as I am running out of them now I have been round the possibilities so many times I can't see the wood for the trees.
Regards
Jerry
2U0BGE

Steve Drury wrote:
>
> Jerry,
>
> Remember that the IF is ABOVE the signal and oscillator frequency,
> this means if the oscillator is running low in frequency the tuned
> frequency will be high.
>
> If you think there are more than 40 turns on the oscillator inductor
> (L5) and haven't glued the to the board yet I recommend you remove it
> and count the turns. I haven't found this problem before.....
>
> With regard suggestions for the build manual and the next revision;
> perhaps we can start a new subject so I can find the changes easily
> when the time comes to do the new release.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> ----- Original Message -----
> From: Jerry A Bligh
> To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> Sent: Friday, July 25, 2008 5:37 PM
> Subject: Re: [mkars80] Nearly finished
>
> Hi Steve
> All finished and the receiver worked well last night.
> I connected up the display following your instructions and that is
> working fine as well.
> As far as the receiver is concerned I now only have one minor problem,
I

> cannot adjust C38 far enough to read 3.45 Mhz.
> I suspect it may be to do with the windings on L5 which should be
4.8uH,
> my coil is, as I checked it on a PEAK inductance meter before I fitted
> it although I am suspicious that it may have one or two more turns
> than 40.
> Any ideas?
> When my mike arrives I will have a go with the TX.
> On talking about extra pictures in the build manual, you may want to
add
> something to the second para under construction on page 3 the LED is
> also mounted on the other side of the PCB. Only a comment which might
be
> useful to the less experienced builder.
> From my own perspective this has been one of the nicest kits I have
> built and I have built a few.
> So thanks for all your effort in developing it and also your continued
> enthusiasm in helping to resolve problems.
> Regards
> Jerry
> 2U0BGE
>
> Steve Drury wrote:
> >
> > Stations will be louder in the evening, remember that 80M radios
> > benefit from decent size antenna - I use a full size G5RV, signals
are
> > VERY loud!
> >
> > Steve G6ALU
> >
> > My web site: www.radio-kits.co.uk
> >
> > ----- Original Message -----
> > From: Jerry A Bligh
> > To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Thursday, July 24, 2008 8:53 PM
> > Subject: Re: [mkars80] Nearly finished
> >
> > Hi Steve
> > Thanks for the quick solution, just as an update I got the set
working
> > this afternoon and although there was plenty of loud hiss in the
speaker
> > the odd station I got was quite feint.
> > I will be trying it again tonight when hopefully there will be a
number
> > of strong signals around.

> > So here's hoping
> > Regards
> > Jerry
> > 2U0BGE
> >
> > Steve Drury wrote:
> > >
> > > Jerry,
> > >
> > > Its the left-hand most holes, if you are unsure have a look at the
2nd
> > > prototype picture in the groups photo section.
> > >
> > > Sounds like another photo is required in the construction manual.
> > >
> > > Steve G6ALU
> > >
> > > My web site: www.radio-kits.co.uk
> > >
> > > ----- Original Message -----
> > > From: Jerry A Bligh
> > > To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk>
.co.uk
<mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > <mailto:mkars80%40yahoogroups.co.uk>
> > > Sent: Thursday, July 24, 2008 3:43 PM
> > > Subject: [mkars80] Nearly finished
> > >
> > > Hi All
> > > All seems to be going to plan according to the instructions.
> > > Just come to install the display and it is not clear which holes
in
> > > the display are supposed to line up with the socket beneath. There
> > > does seem to be enough play to move the display one hole either
way.
> > > Just a senior moment but could somebody put me straight before I
make
> > > a cockup, it would be a shame at this point.
> > >
> > > Regards
> > > Jerry
> > > 2U0BGE
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > > Internal Virus Database is out of date.
> > > Checked by AVG - http://www.avg. <http://www.avg.

<http://www.avg.com> com> com
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> <http://www.avg. <http://www.avg. <http://www.avg.com> com> com
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<http://www.avg. <http://www.avg.com> com> com>>
> > <http://www.avg. <http://www.avg. <http://www.avg.com> com> com
<http://www.avg.
<http://www.avg. <http://www.avg.com> com> com> <http://www.avg.
<http://www.avg. <http://www.avg.com> com> com
> <http://www.avg. <http://www.avg. <http://www.avg.com> com> com>>>
> > > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > > 19/07/2008 14:01
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - http://www.avg. <http://www.avg.
<http://www.avg.com> com> com
<http://www.avg. <http://www.avg. <http://www.avg.com> com> com>
> <http://www.avg. <http://www.avg. <http://www.avg.com> com> com
<http://www.avg.
<http://www.avg. <http://www.avg.com> com> com>>
> > > Version: 8.0.138 / Virus Database: 270.5.5/1571 - Release Date:
> > 24/07/2008 17:42
> > >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> > Internal Virus Database is out of date.
> > Checked by AVG - http://www.avg. <http://www.avg.
<http://www.avg.com> com> com
<http://www.avg. <http://www.avg. <http://www.avg.com> com> com>
> <http://www.avg. <http://www.avg. <http://www.avg.com> com> com
<http://www.avg.
<http://www.avg. <http://www.avg.com> com> com>>
> > Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> > 19/07/2008 14:01
> >
> > [Non-text portions of this message have been removed]
> >
> >
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> > Checked by AVG - http://www.avg. <http://www.avg.
<http://www.avg.com> com> com
<http://www.avg. <http://www.avg. <http://www.avg.com> com> com>
> > Version: 8.0.138 / Virus Database: 270.5.6/1572 - Release Date:
> 7/25/2008 6:51 AM

> >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg. <http://www.avg. <http://www.avg.com>
com> com <http://www.avg.
<http://www.avg. <http://www.avg.com> com> com>
> Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
> 19/07/2008 14:01
>
> [Non-text portions of this message have been removed]
>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg. <http://www.avg. <http://www.avg.com>
com> com
> Version: 8.0.138 / Virus Database: 270.5.6/1574 - Release Date:
7/25/2008
4:27 PM
>

Yahoo! Groups Links

Internal Virus Database is out of date.
Checked by AVG - http://www.avg. <http://www.avg. <http://www.avg.com>
com> com
Version: 8.0.138 / Virus Database: 270.5.2/1562 - Release Date:
19/07/2008
14:01

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG - http://www.avg. <http://www.avg.com> com
Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date:
8/1/2008
6:39 AM

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg. <http://www.avg.com> com
Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date:

01/08/2008 06:39

[Non-text portions of this message have been removed]

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date:
01/08/2008 06:39

[Non-text portions of this message have been removed]

269. Re: Now another problem

Yahoo group: mkars80
Date: 2008-08-02 12:05:21 UTC
From: ve3xj
Topic: 259 Message: 269

Steve:

Well, I measured as you suggested and I got the voltages on R5 on transmit as expected. I then measured the base lead of Q3, and the voltage is now as expected. I am at a loss as to why it didn't read that when I made the first measurements (perhaps I was measuring the wrong transistor?) That being the case, I am going to try shorting the B-E leads with greater care, and see if I can hear the oscillation. Last time I did it, the audio stayed on, but now loud oscillation.

On the suggestion of my friend, I clippped R17, on the theory that my mike was not the type that needed a bias. That didn't work either..

Anyways, I am going to try to borrow an audio generator and scope it out, starting from the input to the mike amp and go from there...

73

Jim, VE3XJ

--- In mkars80@....uk, "Steve Drury" <g6alu@...> wrote:
>
> Jim,
> Sounds like a problem on Q3 if there is no volts on its base even in TX. Check the volts across R5 in TX, one side should be abot 12 the other 0.6 - 0.7. Check for a short circuit transistor or perhaps a solder splash.
>
> See also my next message to Jerry re the output transistor.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> >
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date: 01/08/2008 06:39
>
>
>
> [Non-text portions of this message have been removed]
>

270. Re: [mkars80] Re: Now another problem

Yahoo group: mkars80
Date: 2008-08-04 19:24:31 UTC
From: Steve Drury
Topic: 259 Message: 270

Jim,

It's unlikely you damaged any transistor by shorting its legs together (excepting the output FET).

If it gets desperate I will repair it for you, I don't charge for components or my time but do request you pay return postage - unless it is my fault of course!

Regards,
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: ve3xj
To: mkars80@...
Sent: Saturday, August 02, 2008 1:05 PM
Subject: [mkars80] Re: Now another problem

Steve:

Well, I measured as you suggested and I got the voltages on R5 on transmit as expected. I then measured the base lead of Q3, and the voltage is now as expected. I am at a loss as to why it didn't read that when I made the first measurements (perhaps I was measuring the wrong transistor?) That being the case, I am going to try shorting the B-E leads with greater care, and see if I can hear the oscillation. Last time I did it, the audio stayed on, but now loud oscillation.

On the suggestion of my friend, I clippped R17, on the theory that my mike was not the type that needed a bias. That didn't work either..

Anyways, I am going to try to borrow an audio generator and scope it out, starting from the input to the mike amp and go from there...

73

Jim, VE3XJ

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Jim,
> Sounds like a problem on Q3 if there is no volts on its base even in TX. Check the volts across R5 in TX, one side should be abot 12 the other 0.6 - 0.7. Check for a short circuit transistor or perhaps a solder splash.
>

> See also my next message to Jerry re the output transistor.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
> >
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release Date:
01/08/2008 06:39
>
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.10/1586 - Release Date: 01/08/2008 18:59

[Non-text portions of this message have been removed]

271. Re: Now another problem

Yahoo group: mkars80
Date: 2008-08-05 15:52:24 UTC
From: ve3xj
Topic: 259 Message: 271

Hi Steve:

Well, I am not going to give up yet... I hope to get together with my friend (the thinking is that two heads are better than one) and he has an audio generator and a scope. The idea is to inject a tone into the mike jack and look at each stage on the scope and see where the problem is. So hopefully, by Friday, I will be able to give you an update...

73 for now

Jim, VE3XJ

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Jim,
>
> It's unlikely you damaged any transistor by shorting its legs together (excepting the output FET).
>
> If it gets desperate I will repair it for you, I don't charge for components or my time but do request you pay return postage - unless it is my fault of course!
>
> Regards,
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: ve3xj
> To: mkars80@yahoogroups.co.uk
> Sent: Saturday, August 02, 2008 1:05 PM
> Subject: [mkars80] Re: Now another problem
>
>
> Steve:
>
> Well, I measured as you suggested and I got the voltages on R5 on
> transmit as expected. I then measured the base lead of Q3, and the
> voltage is now as expected. I am at a loss as to why it didn't read
> that when I made the first measurements (perhaps I was measuring the

> wrong transistor?) That being the case, I am going to try
shorting
> the B-E leads with greater care, and see if I can hear the
> oscillation. Last time I did it, the audio stayed on, but now
loud
> oscillation.
>
> On the suggestion of my friend, I clippped R17, on the theory
that my
> mike was not the type that needed a bias. That didn't work
either..
>
> Anyways, I am going to try to borrow an audio generator and scope
it
> out, starting from the input to the mike amp and go from there...
>
> 73
>
> Jim, VE3XJ
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Jim,
> > Sounds like a problem on Q3 if there is no volts on its base
even
> in TX. Check the volts across R5 in TX, one side should be abot
12
> the other 0.6 - 0.7. Check for a short circuit transistor or
perhaps
> a solder splash.
> >
> > See also my next message to Jerry re the output transistor.
> >
> > Steve G6ALU
> >
> > My web site: www.radio-kits.co.uk
> >
> > >
> >
> > No virus found in this incoming message.
> > Checked by AVG - http://www.avg.com
> > Version: 8.0.138 / Virus Database: 270.5.10/1585 - Release
Date:
> 01/08/2008 06:39
> >
> >
> >
> > [Non-text portions of this message have been removed]

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> ------------------------------------
>
> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.138 / Virus Database: 270.5.10/1586 - Release Date:
01/08/2008 18:59
>
>
>
> [Non-text portions of this message have been removed]
>

272. My MKARS80 can hear!

Yahoo group: mkars80
Date: 2008-08-05 18:40:11 UTC
From: dl4aaj
Topic: 272 Message: 272

Hi All,

About 10 days ago I got my MKARS80 kit from Steve. What a fine kit, I'm very impressed, although I should have known because many others before me already told so. :-)
Meanwhile I've populated the board, made the initial tests and fitted the controller and display. Every alignment procedure shown in the construction manual went without problems, and my MKARS80 is receiving very well ☐ even with my poor excuse for an antenna aka test lead <1 meter.
Next will be the transmitter test.
As I already mentioned I am very impressed, both with the kit and the finished transceiver! (Almost ☐ it's still without enclosure). Not a single problem during the building process. This kit shows what can be done if somebody really cares. Thank you, Steve!

Heinz "Hannes" DL4AAJ

273. Re: Now another problem - AND FINALLY SOLVED!

Yahoo group: mkars80
Date: 2008-08-08 01:01:18 UTC
From: ve3xj
Topic: 259 Message: 273

Hi Steve and Others...

Well, the problem has been found, and I made my first contact with the rig. Turned out that the mike of the computer headset that I was initally using wasn't working at all; so it was no wonder I had no output. As soon as I wired up a cheapee Radio Shack dynamic mike, I made a contact with a station north of Montreal, about 100 km as the crow flies from here, who was running a net. His only comment was that my audio sounded rather funny. With that report, I immediately suspected that the poor audio was related to the the poorly adjusted carrier suppression because we had measured the unmodulated carrier at 3 milliwatts. So with a nearby reciever without an antenna, I was able to adjust R59 and C103 such that there is no S-meter reading. Subsequently, there were a couple of other chaps on the band, and they said the rig sounded fine.

The next step is to build that little varactor tuning circuit...

Steve, thanks so much for your help and tips..

73

Jim, VE3XJ

--- In mkars80@....uk, "ve3xj" <ve3xj@...> wrote:
>
> Hi Steve:
>
> Well, I am not going to give up yet... I hope to get together with
> my friend (the thinking is that two heads are better than one) and
he
> has an audio generator and a scope. The idea is to inject a tone
> into the mike jack and look at each stage on the scope and see
where
> the problem is. So hopefully, by Friday, I will be able to give
you
> an update...
>
> 73 for now
>
> Jim, VE3XJ
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Jim,

> >
> > It's unlikely you damaged any transistor by shorting its legs
> together (excepting the output FET).
> >
> > If it gets desperate I will repair it for you, I don't charge for
> components or my time but do request you pay return postage -
unless
> it is my fault of course!
> >
> > Regards,
> > Steve G6ALU
> >
> > My web site: www.radio-kits.co.uk
> >
> >
> > ----- Original Message -----
> > From: ve3xj
> > To: mkars80@...
> > Sent: Saturday, August 02, 2008 1:05 PM
> > Subject: [mkars80] Re: Now another problem
> >
> >
> > Steve:
> >
> > Well, I measured as you suggested and I got the voltages on R5
on
> > transmit as expected. I then measured the base lead of Q3, and
> the
> > voltage is now as expected. I am at a loss as to why it didn't
> read
> > that when I made the first measurements (perhaps I was
measuring
> the
> > wrong transistor?) That being the case, I am going to try
> shorting
> > the B-E leads with greater care, and see if I can hear the
> > oscillation. Last time I did it, the audio stayed on, but now
> loud
> > oscillation.
> >
> > On the suggestion of my friend, I clippped R17, on the theory
> that my
> > mike was not the type that needed a bias. That didn't work
> either..
> >
> > Anyways, I am going to try to borrow an audio generator and
scope
> it
> > out, starting from the input to the mike amp and go from
there...

> >
> > 73
> >
> > Jim, VE3XJ
> >
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > Jim,
> > > Sounds like a problem on Q3 if there is no volts on its base
> even
> > in TX. Check the volts across R5 in TX, one side should be abot
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> > the other 0.6 - 0.7. Check for a short circuit transistor or
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> > a solder splash.
> > >
> > > See also my next message to Jerry re the output transistor.
> > >
> > > Steve G6ALU
> > >
> > > My web site: www.radio-kits.co.uk
> > >
> > > >
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> Date:
> > 01/08/2008 06:39
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> >
> >
> > No virus found in this incoming message.
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> > Version: 8.0.138 / Virus Database: 270.5.10/1586 - Release
Date:

> 01/08/2008 18:59
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

274. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2008-08-10 20:54:13 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 274

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /MKARS80.mov
Uploaded by : hamlab3 <g6alu@...>
Description : Ron - PA0RCL MKARS80 Mk 2 in action

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/MKARS80.mov

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

hamlab3 <g6alu@...>

275. Progress - Bag One Complete

Yahoo group: mkars80
Date: 2008-08-11 22:27:22 UTC
From: hamfm1000
Topic: 275 Message: 275

Have taken the plunge, got me a kit and the latest post of the working rig is spurring me on.

Have completed bag one without any major problems, thanks to an illuminated desk magnifier. <g>

Will have a break from it now and tackle bag 2 over the coming weekend.

Slightly OT, anyone suggest the best band to have a dabble at QRP CW? Need to start off with a few simple QSOs around 8-10 wpm to get my ear and fist back in the game.

73
Tony
G6XMO

276. RE: [mkars80] Progress - Bag One Complete

Yahoo group: mkars80
Date: 2008-08-12 09:47:28 UTC
From: Martin Butler
Topic: 275 Message: 276

Hi Tony

Good news on the kit, enjoy the building. On the CW thing I don’t do CW
however
I would think that 30 metres(10MHz) would be a good place to start. There
are no contests
Run on this band so you should get help.

72's Martin

Martin Butler
Mobile: +44 7973 552878
Amateur Radio Call Sign: M1MRB
QTH: Carshalton, Surrey. UK (IO91VJ)
RSGB instructor for Foundation, Intermediate and Advance courses
Lead Instructor for Sutton and Cheam Amateur Radio Society
Technical Editor of ICQ Podcast http://www.icqpodcast.com
Member of GQRP, membership number: 11451 http://www.gqrp.com

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of hamfm1000
Sent: 11 August 2008 23:27
To: mkars80@...
Subject: [mkars80] Progress - Bag One Complete

Have taken the plunge, got me a kit and the latest post of the working rig
is spurring me on.

Have completed bag one without any major problems, thanks to an illuminated
desk magnifier. <g>

Will have a break from it now and tackle bag 2 over the coming weekend.

Slightly OT, anyone suggest the best band to have a dabble at QRP CW?
Need to start off with a few simple QSOs around 8-10 wpm to get my ear and
fist back in the game.

73
Tony
G6XMO

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.6.1/1605 - Release Date: 8/11/2008
4:59 PM

277. MKARS80 antenna tuner

Yahoo group: mkars80
Date: 2008-08-12 15:14:06 UTC
From: Ron
Topic: 277 Message: 277

Hello all,

Has anyone built an antenna tuner for the MARS80 yet, that is a small and simple tuner only for the 80m band? I'd like to build one, but without reinventing the wheel....

Thanks and 73, Ron

278. Re: Progress - Bag One Complete

Yahoo group: mkars80
Date: 2008-08-12 17:23:16 UTC
From: Darwin Piatt
Topic: 275 Message: 278

Hi Tony;
My kit is still in the box because I'm building a KX1 for a friend, promised to finish it before starting on this one.
As for the best CW band, try 40 meters if you have something that will go there. there is almost always someong hanging around either 7.030 or 7.040.
Cheers
Dar W9HZC (ex G5CNP)
Nebraska, USA

--- In mkars80@..., "hamfm1000" <hamfm1000@...> wrote:
>
> Have taken the plunge, got me a kit and the latest post of the working
> rig is spurring me on.
>
> Have completed bag one without any major problems, thanks to an
> illuminated desk magnifier. <g>
>
> Will have a break from it now and tackle bag 2 over the coming weekend.
>
> Slightly OT, anyone suggest the best band to have a dabble at QRP CW?
> Need to start off with a few simple QSOs around 8-10 wpm to get my ear
> and fist back in the game.
>
> 73
> Tony
> G6XMO
>

279. Re:Progress - Bag One Complete

Yahoo group: mkars80
Date: 2008-08-12 18:57:37 UTC
From: John Housego
Topic: 275 Message: 279

Tony G6MXO wrote.....
"Slightly OT, anyone suggest the best band to have a dabble at QRP CW? Need to start off with a few simple QSOs around 8-10 wpm to get my ear and fist back in the game."

Hello Tony,

Can I suggest you try any of the FISTS CW club frequencies probably the best ones being 3.558, 7.028, and 14.058, you can be sure any members will adjust to your speed and give full encouragement. I frequently monitor 3.558 if I hear you will of course get back to you.

Well done with the MKARS80.

John (M0TIF)

[Non-text portions of this message have been removed]

280. Re:MKARS80 antenna tuner

Yahoo group: mkars80
Date: 2008-08-12 19:13:20 UTC
From: John Housego
Topic: 277 Message: 280

Ron PA0RCL wrote.....

"Has anyone built an antenna tuner for the MARS80 yet, that is a small and simple tuner only
for the 80m band? I'd like to build one, but without reinventing the wheel"

Hello Ron,

Two suggestions home-brew and kit.

The home brew one I built was from SPRAT magazine issue 130, there is a picture on the photos area of this MKARS80 group. Its a design by G3EJS and I have used it with the MKARS80 with a G5RV and a long wire works very well. If you don't have access to this issue of SPRAT and interested let me know.

Secondly I build the Hendrix long wire / ATU kit. This is very small ATU with an LED that extinguishes when adjusted for lowest SWR. Very nice kit at a reasonable price. I will post some pictures on groups photo area.

Good luck

John (M0TIF)

[Non-text portions of this message have been removed]

281. Re:MKARS80 antenna tuner

Yahoo group: mkars80
Date: 2008-08-12 19:25:29 UTC
From: Ron
Topic: 277 Message: 281

Hello John,

I'll probably go for the Hendrix kit, saves me the trouble of collecting the parts. Thanks very much for the reply!

73

Ron pa0rcl

--- In mkars80@..., John Housego <John.Housego1@...> wrote:
>
> Ron PA0RCL wrote.....
>
> "Has anyone built an antenna tuner for the MARS80 yet, that is a small
> and simple tuner only
> for the 80m band? I'd like to build one, but without reinventing the
> wheel"
>
> Hello Ron,
>
> Two suggestions home-brew and kit.
>
> The home brew one I built was from SPRAT magazine issue 130, there is a
> picture on the photos area of this MKARS80 group. Its a design by G3EJS
> and I have used it with the MKARS80 with a G5RV and a long wire works
> very well. If you don't have access to this issue of SPRAT and
> interested let me know.
>
> Secondly I build the Hendrix long wire / ATU kit. This is very small ATU
> with an LED that extinguishes when adjusted for lowest SWR. Very nice
> kit at a reasonable price. I will post some pictures on groups photo
> area.
>
> Good luck
>
> John (M0TIF)
>
>
> [Non-text portions of this message have been removed]
>

282. Re: Progress - Bag One Complete

Yahoo group: mkars80
Date: 2008-08-12 19:49:59 UTC
From: Paul
Topic: 275 Message: 282

Well done Tony,

I am onto bag 3 and besides minor problem of printing wrong manual
it's progressing well.

I feel I should mention my kit building experience thus far was a
morse oscillator for my 2E licence.

Tomorrow will be continuing with the 51 100nf capacitors(?).

Now looking for when I finish at building a Byonics APRS unit, but
seems childs play by comparison.

73

Paul MØTZO

--- In mkars80@..., "hamfm1000" <hamfm1000@...> wrote:
>
> Have taken the plunge, got me a kit and the latest post of the working
> rig is spurring me on.
>
> Have completed bag one without any major problems, thanks to an
> illuminated desk magnifier. <g>
>
> Will have a break from it now and tackle bag 2 over the coming weekend.
>
> Slightly OT, anyone suggest the best band to have a dabble at QRP CW?
> Need to start off with a few simple QSOs around 8-10 wpm to get my ear
> and fist back in the game.
>
> 73
> Tony
> G6XMO

283. antenna tuner

Yahoo group: mkars80
Date: 2008-08-13 06:06:22 UTC
From: v_pawluk
Topic: 283 Message: 283

antenna tuner...
unfinished but useful
http://forum.cqham.ru/viewtopic.php?t=11086&highlight=ur5whk

284. Soldering Inductors

Yahoo group: mkars80
Date: 2008-08-13 17:49:44 UTC
From: hamfm1000
Topic: 284 Message: 284

Found this - you may already have seen it, but it looks a good idea
for soldering all those T's and L's.
I'm sure I must have an old solder tip somewhere in the junk box.

http://www.qrpkits.com/files/MiniSolderPot.pdf

73
Tony
G6XMO

285. Fequency drift

Yahoo group: mkars80
Date: 2008-08-15 21:46:46 UTC
From: Steve Drury
Topic: 285 Message: 285

Message to Jerry 2U0BGE

Jerry, your postbox is full so my reply to your private mail is below.....

Jerry, I tested it on air so I don't think you have a problem.

Let the radio warm up for half hour or so and you should find it stabilises, it will only drift then if you transmit with long overs. When I do presentations on this radio I make a point of telling every one to make a note of the operating frequency in their log at the start of the QSO in case you forget what frequency you started on.

When in a QSO keep an eye on the Huff and Puff bar graph, if it gets to either end hand the QSO back to the other station and carefully re-tune.

Talk loud enough so the LED flickers off but doesn't stay off, this is the correct level.

I hope you enjoy using the radio..

Regards,
Steve G6ALU

[Non-text portions of this message have been removed]

286. Progress :: Bag 4

Yahoo group: mkars80
Date: 2008-08-18 08:38:46 UTC
From: hamfm1000
Topic: 286 Message: 286

Build is progessing well.
Now half-way through bag 4.
I'm sure that I counted 51 100nF caps. Might have got a spare one <g>
Will look for an empty position during final board checks.

Went looking for microphones in 'the pound shop' - they don't seem to
have any at the moment.

73
Tony
G6XMO

287. OK - Board completed and Smoke Tested

Yahoo group: mkars80
Date: 2008-08-19 22:30:06 UTC
From: hamfm1000
Topic: 287 Message: 287

Well after peering at completed board under the desk magnifier to check orientation of components and the solder side for any of the usual nasties it was time for the smoke test. I'm glad to say that there was no smoke or nasty noises from the speaker. Voltages at test points OK. So off went the power and then to fit the PIC and display. After switching on and adjusting there it was, frequency and voltage display.

Saturday then is boxing up time!

73
Tony
G6XMO

288. MKARS 80 : Alignment Assistance

Yahoo group: mkars80
Date: 2008-08-19 22:34:24 UTC
From: hamfm1000
Topic: 288 Message: 288

Wonder if anyone in the South Yorks/north Derbys area near Sheffield or Lancs around Preston/Leyland/Chorley would kindly offer help with the rest of the alignment as my test gear is quite limited. I'm happy to come to you.

The

TIA
73
Tony
G6XMO

289. Re: [mkars80] MKARS 80 : Alignment Assistance

Yahoo group: mkars80
Date: 2008-08-20 19:42:12 UTC
From: Steve Drury
Topic: 288 Message: 289

Tony,

Here is how I set the radio up WITHOUT any specialist equipment.
1.. First check the receiver functions correctly - it should be very lively in the evening! Then disconnect the antenna before continuing.
2.. Set the VFO range - turn the tuning control fully clockwise (minimum tuned frequency, adjust C38 (orange preset capacitor) for a displayed frequency of about 3.45MHz. Note that if turned too low the display will suddenly read > 5MHz.
3.. Set up the PA bias (R2) by following the instructions - if you have a spare stereo jack plug then short all its connections together and plug into the microphone socket. This will put the rig into TX without any microphone audio. First measure the current (a convenient place to measure is across the fuse holder with fuse removed) with R2 FULLY ant-clockwise, then slowly adjust R2 clockwise until the current reads 50mA more than the first measurement. Note that the current doesn't increase for a while then increases suddenly. Make sure the PA transistor doesn't get too hot to touch.
4.. Using a nearby radio receiver on CW or SSB (but NOT connected to the MKARS80) tune until you can hear the carrier signal adjust R59 and C103 to minimise this; note that they are both interactive.
5.. Remove the microphone plug and whilst listening to a good clear signal adjust C83 for good audio; if C83 hasn't been touched before turning it between 90° and 180° normally gives the best result. Note that when adjusted correctly every one will appear to be transmitting on the right frequency, don't panic though as this isn't a critical adjustment.
6.. Adjust C54, C68 and C79 to the position shown in the instructions - again this isn't a critical adjustment.
7.. If you have a dummy load (use a couple of 100 ohm resistors in parallel if not) do a test transmission, if the LED flickers off in normal speech all is good and its safe to make a CQ call.
Best of luck.
Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: hamfm1000
To: mkars80@...
Sent: Tuesday, August 19, 2008 11:34 PM
Subject: [mkars80] MKARS 80 : Alignment Assistance

Wonder if anyone in the South Yorks/north Derbys area near Sheffield
or Lancs around Preston/Leyland/Chorley would kindly offer help with
the rest of the alignment as my test gear is quite limited. I'm happy
to come to you.

The

TIA
73
Tony
G6XMO

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.6.4/1617 - Release Date: 17/08/2008 12:58

[Non-text portions of this message have been removed]

290. Re: [mkars80] MKARS 80 : Alignment Assistance

Yahoo group: mkars80
Date: 2008-08-21 16:48:44 UTC
From: Tony Olewicz
Topic: 288 Message: 290

Thanks Steve.
I will be busy this weekend for sure.
73
Tony
G6XMO

--- On Wed, 20/8/08, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] MKARS 80 : Alignment Assistance
To: mkars80@...
Date: Wednesday, 20 August, 2008, 8:42 PM

Tony,

Here is how I set the radio up WITHOUT any specialist equipment.
1.. First check the receiver functions correctly - it should be very lively in the evening! Then disconnect the antenna before continuing.
2.. Set the VFO range - turn the tuning control fully clockwise (minimum tuned frequency, adjust C38 (orange preset capacitor) for a displayed frequency of about 3.45MHz. Note that if turned too low the display will suddenly read > 5MHz.
3.. Set up the PA bias (R2) by following the instructions - if you have a spare stereo jack plug then short all its connections together and plug into the microphone socket. This will put the rig into TX without any microphone audio. First measure the current (a convenient place to measure is across the fuse holder with fuse removed) with R2 FULLY ant-clockwise, then slowly adjust R2 clockwise until the current reads 50mA more than the first measurement. Note that the current doesn't increase for a while then increases suddenly. Make sure the PA transistor doesn't get too hot to touch.
4.. Using a nearby radio receiver on CW or SSB (but NOT connected to the MKARS80) tune until you can hear the carrier signal adjust R59 and C103 to minimise this; note that they are both interactive.
5.. Remove the microphone plug and whilst listening to a good clear signal adjust C83 for good audio; if C83 hasn't been touched before turning it between 90° and 180° normally gives the best result. Note that when adjusted correctly every one will appear to be transmitting on the right frequency, don't panic though as this isn't a critical adjustment.
6.. Adjust C54, C68 and C79 to the position shown in the instructions - again this isn't a critical adjustment.
7.. If you have a dummy load (use a couple of 100 ohm resistors in parallel if not) do a test transmission, if the LED flickers off in normal speech all is good and its safe to make a CQ call.
Best of luck.
Steve G6ALU

My web site: www.radio-kits. co.uk

----- Original Message -----
From: hamfm1000
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, August 19, 2008 11:34 PM
Subject: [mkars80] MKARS 80 : Alignment Assistance

Wonder if anyone in the South Yorks/north Derbys area near Sheffield
or Lancs around Preston/Leyland/ Chorley would kindly offer help with
the rest of the alignment as my test gear is quite limited. I'm happy
to come to you.

The

TIA
73
Tony
G6XMO

------------ --------- --------- ------

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg. com
Version: 8.0.138 / Virus Database: 270.6.4/1617 - Release Date: 17/08/2008 12:58

[Non-text portions of this message have been removed]

Send instant messages to your online friends http://uk.messenger.yahoo.com

[Non-text portions of this message have been removed]

291. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2008-08-23 16:35:47 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 291

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /Tuning Mod for MKARS80 Schematic 23Aug08.jpg
Uploaded by : ve3xj <ve3xj@...>
Description : Schematic of Varactor Tuning Mod

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/Tuning%20Mod%20for%20MKARS80%20Schematic%20
23Aug08.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

ve3xj <ve3xj@...>

292. Varactor Tuning Mods

Yahoo group: mkars80
Date: 2008-08-23 17:26:12 UTC
From: ve3xj
Topic: 292 Message: 292

Greetings:

I have uploaded a schematic in the Files section, and three pictures in the Photos section relating to a modification that I have made to my MKARS80 transciever.

The modification consists of the removal of the main tuning capacitor and replacing it with an MVAM109 varicap, a 1 Megohm resistor and an NPO capacitor on the board, while off board, there is a 10k pot for main frequency control, a sub-band selector switch and a resistor matrix board.

The original circuit had only one off-board component, the 10k pot. However, the resultant frequency varitions were too great even while rotating the pot knob with the greatest of care, making it difficult to net in a station easily. As a result, I added a selector switch and a resistor matrix board, dividing the band into four sub-bands. In effect, the selector switch inserts the pot as required within a voltage divider chain so that instead of tuning the whole 75/80 meter band, only ~125 kHz is tuned. Thus, tuning to a station on the band is much easier with only touch-up as required by the existing fine tuning pot.

When you view the picture for the resistor matrix board, you will note that in two of the legs, there are two resistors, while the schematic shows a single 30kohm resistor. I could not find a 30kohm resistor at any of our local parts emporiums, so I just seriesed (?) a 10k and 20k ohm resistor in the leg.

Since my rotary switch has two unused positions, I plan to add two more legs. However, instead of using the main tuning pot, I will use a small PCB pot, set one for favourite net frequencies (3755 and 3775, for example). Call it a "poor man's" frequency memory.

This modification was prompted by my wish to put the board in a bigger case than what was provided by the kit. I plan to include a Ni-Cd battery pack with charger (taken from a cordless drill that was on sale), a sound card interface, SWR meter, mike pre-amp and 2.5 watt audio amp kit, and the means to generate a tone for adjusting a tuner.

At first I was considering removing the polycap from the board and mounting it on the front panel. However, I waas concerned that moving the polycap would introduce stray and varying capacitances and would make the rig unstable. After querying Steve if anyone else had modified the rig for varactor tuning, he was kind enough to send to me a schematic by Ron, PA0RCL which was used as a basis for this

modification. Therefore, I wish to thank Ron for sharing his design with me.

If you wish to try this mod yourself, please contact me if you have any questions.

73

Jim, VE3XJ

293. kit

Yahoo group: mkars80
Date: 2008-09-19 00:57:39 UTC
From: rf200655
Topic: 293 Message: 293

Hi this is my first post who do you order the mkars80 from &thecost of kit plus shipping to usa thanks ray kc4dym

294. Re: [mkars80] kit

Yahoo group: mkars80
Date: 2008-09-19 07:15:30 UTC
From: g6alu@tiscali.co.uk
Topic: 293 Message: 294

Good morning Ray,
Kit costs and method of payment are:

Kit including an undrilled case (no knobs) 45 GBP
Postage UK 3 GBP
Postage Europe 4 GBP
Postage rest of the world 6 GBP

If you can pay in sterling then make a cheque out to:

Radio-Kits
25 Crosslands,
Stantonbury,
Milton Keynes,
Bucks.
MK14 6AY
England

Or you can pay by Paypal but you must pay the comission of 2 GBP -
make your payment to val@... .

So for you Ray it will be 53 GBP paid to our Paypal account.

Regards,
Steve G6ALU

>----Original Message----
>From: crf2@...
>Date: 19/09/2008 1:57
>To: <mkars80@...>
>Subj: [mkars80] kit
>
>
>Hi this is my first post who do you order the mkars80 from &thecost
of
>kit plus shipping to usa thanks ray kc4dym
>
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>Yahoo! Groups Links
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---

295. How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-23 00:09:31 UTC
From: Mike
Topic: 295 Message: 295

Hey Guys,

I am having trouble with the "Huff and Puff" that will throw me off frequency in the middle of txing. Is there an easy way to turn off the correction?

Thanks

Mike WA3O

296. Re: [mkars80] How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-23 19:24:34 UTC
From: Steve Drury
Topic: 295 Message: 296

Mike,

The easiest way to disable the Huff and Puff is to pull the micro - you obviously won't get a display but you will be able to determine if its stable enough for you. I think you will put the micro back quite quickly!

Its always best to let the radio warm up for at least half an hour and keep an eye on the bar graph (lower right of display), if the bar gets to either end its time to hand the QSO back and centre the tuning. You might find it more pleasant to operate by using a slow motion drive on the polyvaricon - I don't but its personal preference.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Mike
To: mkars80@...
Sent: Tuesday, September 23, 2008 1:09 AM
Subject: [mkars80] How can I turn off the Huff and Puff?

Hey Guys,

I am having trouble with the "Huff and Puff" that will throw me off
frequency in the middle of txing. Is there an easy way to turn off the
correction?

Thanks

Mike WA3O

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.0/1682 - Release Date: 20/09/2008 10:24

[Non-text portions of this message have been removed]

297. Re: How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-23 21:41:35 UTC
From: Mike
Topic: 295 Message: 297

If I pull the pic and reinsert it moving pin 9 out of the socket will
that work?

Thanks

Mike

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Mike,
>
> The easiest way to disable the Huff and Puff is to pull the micro -
you obviously won't get a display but you will be able to determine if
its stable enough for you. I think you will put the micro back quite
quickly!
>
> Its always best to let the radio warm up for at least half an hour
and keep an eye on the bar graph (lower right of display), if the bar
gets to either end its time to hand the QSO back and centre the
tuning. You might find it more pleasant to operate by using a slow
motion drive on the polyvaricon - I don't but its personal preference.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: Mike
> To: mkars80@...
> Sent: Tuesday, September 23, 2008 1:09 AM
> Subject: [mkars80] How can I turn off the Huff and Puff?
>
>
> Hey Guys,
>
> I am having trouble with the "Huff and Puff" that will throw me off
> frequency in the middle of txing. Is there an easy way to turn off the
> correction?
>
> Thanks
>
> Mike WA3O
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.169 / Virus Database: 270.7.0/1682 - Release Date:
20/09/2008 10:24
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> [Non-text portions of this message have been removed]
>

298. Re: [mkars80] Re: How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-24 07:34:15 UTC
From: g6alu@tiscali.co.uk
Topic: 295 Message: 298

Yes although with either method it would be desirable to bias D5 away from ground - perhaps connect a 1k resistor from junction R40 / C50 to 5V.

The more elegant way would be to change the micro code, if you have a programmer I can send you a modified file.

Steve G6ALU

>----Original Message----
>From: mikeymustang2000@...
>Date: 23/09/2008 22:41
>To: <mkars80@...>
>Subj: [mkars80] Re: How can I turn off the Huff and Puff?
>
>
>If I pull the pic and reinsert it moving pin 9 out of the socket will
>that work?
>
>Thanks
>
>Mike
>
>
>
>--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Mike,
>>
>> The easiest way to disable the Huff and Puff is to pull the micro -
>you obviously won't get a display but you will be able to determine
if
>its stable enough for you. I think you will put the micro back quite
>quickly!
>>
>> Its always best to let the radio warm up for at least half an hour
>and keep an eye on the bar graph (lower right of display), if the bar
>gets to either end its time to hand the QSO back and centre the
>tuning. You might find it more pleasant to operate by using a slow
>motion drive on the polyvaricon - I don't but its personal
preference.
>>
>> Steve G6ALU
>>
>> My web site: www.radio-kits.co.uk
>>

>>
>> ----- Original Message -----
>> From: Mike
>> To: mkars80@...
>> Sent: Tuesday, September 23, 2008 1:09 AM
>> Subject: [mkars80] How can I turn off the Huff and Puff?
>>
>>
>> Hey Guys,
>>
>> I am having trouble with the "Huff and Puff" that will throw me
off
>> frequency in the middle of txing. Is there an easy way to turn
off the
>> correction?
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>> Thanks
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>> Mike WA3O
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299. Re: How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-24 21:27:18 UTC
From: Mike
Topic: 295 Message: 299

No programmer here :(But what I am really wondering is why is this vfo drift so much? I have a Hendricks kit BITX20 on 20 meters which is fairly stable and the Mkars kit was designed around that? Maybe its because of the 3 Poly caps in the VFO?

Thanks
Mike WA3O

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Mike,
>
> The easiest way to disable the Huff and Puff is to pull the micro - you obviously won't get a display but you will be able to determine if its stable enough for you. I think you will put the micro back quite quickly!
>
> Its always best to let the radio warm up for at least half an hour and keep an eye on the bar graph (lower right of display), if the bar gets to either end its time to hand the QSO back and centre the tuning. You might find it more pleasant to operate by using a slow motion drive on the polyvaricon - I don't but its personal preference.
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: Mike
> To: mkars80@yahoogroups.co.uk
> Sent: Tuesday, September 23, 2008 1:09 AM
> Subject: [mkars80] How can I turn off the Huff and Puff?
>
>
> Hey Guys,
>
> I am having trouble with the "Huff and Puff" that will throw me off
> frequency in the middle of txing. Is there an easy way to turn off the
> correction?
>
> Thanks
>
> Mike WA3O
>

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> No virus found in this incoming message.
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> Version: 8.0.169 / Virus Database: 270.7.0/1682 - Release Date:
20/09/2008 10:24
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> [Non-text portions of this message have been removed]
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300. Re: [mkars80] Re: How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-25 07:31:33 UTC
From: g6alu@tiscali.co.uk
Topic: 295 Message: 300

First some facts...

The MKARS80 is based on the BITX20
The Hendricks kit is based on the BITX20
The MKARS80 pre-dates the BITX20A by some months so isn't influenced
by it.

I think the difference between the Hendricks BITX20 and the MKARS80
(stability wise) is that the MKARS80 has all the components mounted on
one PCB including the polyvaricon, I did this to make the performance
less determined by the constructors ability also produces a neater and
smaller product.

Has your BITX20 been cased? I've found stability is much improved by
running the MKARS80 out of its case but this isn't practical as it was
designed to be portable!

There are two 1nF polycarbonate caps in the VFO, these were chosed as
a lower cost alternative to 1nF NP0 types which couldn't be obtained at
sensible prices... is the third Poly cap the Polyvaricon? Everything is
made to a price, I had to ballance cost against performance; I think
this ballance is correct, after all how many radios can you build for
less than a tank of petrol?

Most users find the stability to be quite acceptable after the warm up
period, I wonder if your radio has a problem?

Steve G6ALU

>----Original Message----
>From: mikeymustang2000@...
>Date: 24/09/2008 22:27
>To: <mkars80@...>
>Subj: [mkars80] Re: How can I turn off the Huff and Puff?
>
>No programmer here :(But what I am really wondering is why is this
>vfo drift so much? I have a Hendricks kit BITX20 on 20 meters which
is
>fairly stable and the Mkars kit was designed around that? Maybe its
>because of the 3 Poly caps in the VFO?
>
>Thanks
>Mike WA3O
>
>
>
>--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:

>>
>> Mike,
>>
>> The easiest way to disable the Huff and Puff is to pull the micro -
>you obviously won't get a display but you will be able to determine
if
>its stable enough for you. I think you will put the micro back quite
>quickly!
>>
>> Its always best to let the radio warm up for at least half an hour
>and keep an eye on the bar graph (lower right of display), if the bar
>gets to either end its time to hand the QSO back and centre the
>tuning. You might find it more pleasant to operate by using a slow
>motion drive on the polyvaricon - I don't but its personal
preference.
>>
>> Steve G6ALU
>>
>> My web site: www.radio-kits.co.uk
>>
>>
>> ----- Original Message -----
>> From: Mike
>> To: mkars80@...
>> Sent: Tuesday, September 23, 2008 1:09 AM
>> Subject: [mkars80] How can I turn off the Huff and Puff?
>>
>>
>> Hey Guys,
>>
>> I am having trouble with the "Huff and Puff" that will throw me
off
>> frequency in the middle of txing. Is there an easy way to turn
off the
>> correction?
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>> Thanks
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>> Mike WA3O
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301. MKARS80 on air in Ireland this weekend

Yahoo group: mkars80
Date: 2008-09-25 13:56:17 UTC
From: mb130853
Topic: 301 Message: 301

Hi Steve and the group

Just a quick not to say that my MKARS80 is complete and working fine.
I have worked stations in the south of England and down into Wales
with very good results.

I will be taking the radio to Ireland this weekend and will be
operating from just outside Waterford as EI/M1MRB/P. I look forward to
contacts from the group. I will be giving my review and updates via
icqpodcasr.

Once again Steve, thanks for the club talk and for producing a great
transceiver.

73's Martin

Martin Butler
Mobile: +44 7973 552878
Amateur Radio Call Sign: M1MRB
QTH: Carshalton, Surrey. UK (IO91VJ)
RSGB instructor for Foundation, Intermediate and Advance courses
Lead Instructor for Sutton and Cheam Amateur Radio Society
Technical Editor of ICQ Podcast http://www.icqpodcast.com
Member of GQRP, membership number: 11451 http://www.gqrp.com

302. Re: [mkars80] MKARS80 on air in Ireland this weekend

Yahoo group: mkars80
Date: 2008-09-25 14:59:30 UTC
From: g6alu@tiscali.co.uk
Topic: 301 Message: 302

I will listen out for you... is there any favourite frequency you use?

Steve G6ALU

>----Original Message----
>From: martin@...
>Date: 25/09/2008 14:56
>To: <mkars80@...>
>Subj: [mkars80] MKARS80 on air in Ireland this weekend
>
>Hi Steve and the group
>
>Just a quick not to say that my MKARS80 is complete and working fine.
>I have worked stations in the south of England and down into Wales
>with very good results.
>
>I will be taking the radio to Ireland this weekend and will be
>operating from just outside Waterford as EI/M1MRB/P. I look forward
to
>contacts from the group. I will be giving my review and updates via
>icqpodcasr.
>
>Once again Steve, thanks for the club talk and for producing a great
>transceiver.
>
>73's Martin
>
>----------

>Martin Butler
>Mobile: +44 7973 552878
>Amateur Radio Call Sign: M1MRB
>QTH: Carshalton, Surrey. UK (IO91VJ)
>RSGB instructor for Foundation, Intermediate and Advance courses
>Lead Instructor for Sutton and Cheam Amateur Radio Society
>Technical Editor of ICQ Podcast http://www.icqpodcast.com
>Member of GQRP, membership number: 11451 http://www.gqrp.com
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What can Tiscali do for you? - http://www.tiscali.co.uk/services/

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303. Re: [mkars80] Re: How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-25 19:47:01 UTC
From: Calvin Battersby
Topic: 295 Message: 303

Hi Mike,

I used my MKARS80 on holiday last week and had several arranged QSOs, if I was back a bit late and had to use the radio straight away it would be a bit prone to drift, but if I was back in time that I could leave the radio on for half an hour or so things were much better. I know the radio is built to a cost but it seems to work very well if you leave it to warm up and keep an eye on the Huff & Puff bar on the display.
Hope this helps

Calvin M1EPM

----- Original Message -----
From: "Mike" <mikeymustang2000@...>
To: <mkars80@...>
Sent: Wednesday, September 24, 2008 10:27 PM
Subject: [mkars80] Re: How can I turn off the Huff and Puff?

> No programmer here :(But what I am really wondering is why is this
> vfo drift so much? I have a Hendricks kit BITX20 on 20 meters which is
> fairly stable and the Mkars kit was designed around that? Maybe its
> because of the 3 Poly caps in the VFO?
>
> Thanks
> Mike WA3O
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Mike,
>>
>> The easiest way to disable the Huff and Puff is to pull the micro -
> you obviously won't get a display but you will be able to determine if
> its stable enough for you. I think you will put the micro back quite
> quickly!
>>
>> Its always best to let the radio warm up for at least half an hour
> and keep an eye on the bar graph (lower right of display), if the bar
> gets to either end its time to hand the QSO back and centre the
> tuning. You might find it more pleasant to operate by using a slow
> motion drive on the polyvaricon - I don't but its personal preference.
>>
>> Steve G6ALU
>>
>> My web site: www.radio-kits.co.uk

>>
>>
>> ----- Original Message -----
>> From: Mike
>> To: mkars80@...
>> Sent: Tuesday, September 23, 2008 1:09 AM
>> Subject: [mkars80] How can I turn off the Huff and Puff?
>>
>>
>> Hey Guys,
>>
>> I am having trouble with the "Huff and Puff" that will throw me off
>> frequency in the middle of txing. Is there an easy way to turn off the
>> correction?
>>
>> Thanks
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>> Mike WA3O
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>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.169 / Virus Database: 270.7.0/1682 - Release Date:
> 20/09/2008 10:24
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.1/1687 - Release Date: 23/09/2008
18:32

304. Re: How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-27 10:36:02 UTC
From: Mike
Topic: 295 Message: 304

Thanks for the info guys but there must be some issue with my rig...I
left it on for 24 hrs plus and it still drifted

Thanks
Mike

--- In mkars80@yahoogroups.co.uk, "Calvin Battersby"
<calvin.battersby@...> wrote:
>
> Hi Mike,
>
> I used my MKARS80 on holiday last week and had several arranged
QSOs, if I
> was back a bit late and had to use the radio straight away it would
be a bit
> prone to drift, but if I was back in time that I could leave the
radio on
> for half an hour or so things were much better. I know the radio is
built to
> a cost but it seems to work very well if you leave it to warm up and
keep an
> eye on the Huff & Puff bar on the display.
> Hope this helps
>
> Calvin M1EPM
>
>
> ----- Original Message -----
> From: "Mike" <mikeymustang2000@...>
> To: <mkars80@...>
> Sent: Wednesday, September 24, 2008 10:27 PM
> Subject: [mkars80] Re: How can I turn off the Huff and Puff?
>
>
> > No programmer here :(But what I am really wondering is why is this
> > vfo drift so much? I have a Hendricks kit BITX20 on 20 meters which is
> > fairly stable and the Mkars kit was designed around that? Maybe its
> > because of the 3 Poly caps in the VFO?
> >
> > Thanks
> > Mike WA3O
> >
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:

> >>
> >> Mike,
> >>
> >> The easiest way to disable the Huff and Puff is to pull the micro -
> > you obviously won't get a display but you will be able to determine if
> > its stable enough for you. I think you will put the micro back quite
> > quickly!
> >>
> >> Its always best to let the radio warm up for at least half an hour
> > and keep an eye on the bar graph (lower right of display), if the bar
> > gets to either end its time to hand the QSO back and centre the
> > tuning. You might find it more pleasant to operate by using a slow
> > motion drive on the polyvaricon - I don't but its personal preference.
> >>
> >> Steve G6ALU
> >>
> >> My web site: www.radio-kits.co.uk
> >>
> >>
> >> ----- Original Message -----
> >> From: Mike
> >> To: mkars80@...
> >> Sent: Tuesday, September 23, 2008 1:09 AM
> >> Subject: [mkars80] How can I turn off the Huff and Puff?
> >>
> >>
> >> Hey Guys,
> >>
> >> I am having trouble with the "Huff and Puff" that will throw
me off
> >> frequency in the middle of txing. Is there an easy way to turn
off the
> >> correction?
> >>
> >> Thanks
> >>
> >> Mike WA3O
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> Version: 8.0.169 / Virus Database: 270.7.1/1687 - Release Date:
23/09/2008
> 18:32
>

305. Re: [mkars80] Re: How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-28 11:12:41 UTC
From: Tony Olewicz
Topic: 295 Message: 305

Just a thought Mike,
Have you fitted the internal speaker option, or did you take the pots and varicon off board to use a custom case? If you did, lead length or magnetic interference from a speaker might be the problem. Mine is built as per kit and the guys at the radio club are pleasantly surprised at its stability.

73
Tony
G6XMO

--- On Sat, 27/9/08, Mike <mikeymustang2000@...> wrote:

From: Mike <mikeymustang2000@...>
Subject: [mkars80] Re: How can I turn off the Huff and Puff?
To: mkars80@...
Date: Saturday, 27 September, 2008, 11:36 AM

Thanks for the info guys but there must be some issue with my rig...I left it on for 24 hrs plus and it still drifted

Thanks
Mike

--- In mkars80@yahoogroups .co.uk, "Calvin Battersby" <calvin.battersby@ ...> wrote:
>
> Hi Mike,
>
> I used my MKARS80 on holiday last week and had several arranged QSOs, if I
> was back a bit late and had to use the radio straight away it would be a bit
> prone to drift, but if I was back in time that I could leave the radio on
> for half an hour or so things were much better. I know the radio is built to
> a cost but it seems to work very well if you leave it to warm up and keep an
> eye on the Huff & Puff bar on the display.
> Hope this helps
>
> Calvin M1EPM
>
>
> ----- Original Message -----
> From: "Mike" <mikeymustang2000@ ...>

> To: <mkars80@yahoogroups .co.uk>
> Sent: Wednesday, September 24, 2008 10:27 PM
> Subject: [mkars80] Re: How can I turn off the Huff and Puff?
>
>
> > No programmer here :(But what I am really wondering is why is this
> > vfo drift so much? I have a Hendricks kit BITX20 on 20 meters which is
> > fairly stable and the Mkars kit was designed around that? Maybe its
> > because of the 3 Poly caps in the VFO?
> >
> > Thanks
> > Mike WA3O
> >
> >
> >
> > --- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Mike,
> >>
> >> The easiest way to disable the Huff and Puff is to pull the micro -
> > you obviously won't get a display but you will be able to determine if
> > its stable enough for you. I think you will put the micro back quite
> > quickly!
> >>
> >> Its always best to let the radio warm up for at least half an hour
> > and keep an eye on the bar graph (lower right of display), if the bar
> > gets to either end its time to hand the QSO back and centre the
> > tuning. You might find it more pleasant to operate by using a slow
> > motion drive on the polyvaricon - I don't but its personal preference.
> >>
> >> Steve G6ALU
> >>
> >> My web site: www.radio-kits. co.uk
> >>
> >>
> >> ----- Original Message -----
> >> From: Mike
> >> To: mkars80@yahoogroups .co.uk
> >> Sent: Tuesday, September 23, 2008 1:09 AM
> >> Subject: [mkars80] How can I turn off the Huff and Puff?
> >>
> >>
> >> Hey Guys,
> >>
> >> I am having trouble with the "Huff and Puff" that will throw
me off
> >> frequency in the middle of txing. Is there an easy way to turn
off the
> >> correction?
> >>

> >> Thanks
> >>
> >> Mike WA3O
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> >> No virus found in this incoming message.
> >> Checked by AVG - http://www.avg. com
> >> Version: 8.0.169 / Virus Database: 270.7.0/1682 - Release Date:
> > 20/09/2008 10:24
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> >> [Non-text portions of this message have been removed]
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg. com
> Version: 8.0.169 / Virus Database: 270.7.1/1687 - Release Date:
23/09/2008
> 18:32
>

[Non-text portions of this message have been removed]

306. Re: [mkars80] Re: How can I turn off the Huff and Puff?

Yahoo group: mkars80
Date: 2008-09-28 18:24:10 UTC
From: Steve Drury
Topic: 295 Message: 306

I repaired a radio the other day which was competently soldered but the type of multi-core solder used left a lot of residue behind, the radio appeared to drift a lot but I didn't test it properly until I had made it presentable by cleaning the flux of the board - when tested it worked with similar stability as others I have built / repaired.

If your board has a lot of flux residue on the solder side I wonder if stability would be improved by cleaning it off, although in the instructions I advise against cleaning as you don't want any fluid getting on the trimmer capacitors or into the Polyvaricon.

The chemical I use is a professional solvent called Fluxclene, I tried using isopropyl alcohol but this left a nasty residue.

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Tony Olewicz
To: mkars80@...
Sent: Sunday, September 28, 2008 12:12 PM
Subject: Re: [mkars80] Re: How can I turn off the Huff and Puff?

Just a thought Mike,
Have you fitted the internal speaker option, or did you take the pots and varicon off board to use a custom case? If you did, lead length or magnetic interference from a speaker might be the problem. Mine is built as per kit and the guys at the radio club are pleasantly surprised at its stability.

73
Tony
G6XMO

--- On Sat, 27/9/08, Mike <mikeymustang2000@...> wrote:

From: Mike <mikeymustang2000@...>
Subject: [mkars80] Re: How can I turn off the Huff and Puff?
To: mkars80@...
Date: Saturday, 27 September, 2008, 11:36 AM

Thanks for the info guys but there must be some issue with my rig...I
left it on for 24 hrs plus and it still drifted

Thanks
Mike

--- In mkars80@yahoogroups .co.uk, "Calvin Battersby"
<calvin.battersby@ ...> wrote:
>

> Hi Mike,
>
> I used my MKARS80 on holiday last week and had several arranged
QSOs, if I
> was back a bit late and had to use the radio straight away it would
be a bit
> prone to drift, but if I was back in time that I could leave the
radio on
> for half an hour or so things were much better. I know the radio is
built to
> a cost but it seems to work very well if you leave it to warm up and
keep an
> eye on the Huff & Puff bar on the display.
> Hope this helps
>
> Calvin M1EPM
>
>
> ----- Original Message -----
> From: "Mike" <mikeymustang2000@ ...>
> To: <mkars80@yahoogroups .co.uk>
> Sent: Wednesday, September 24, 2008 10:27 PM
> Subject: [mkars80] Re: How can I turn off the Huff and Puff?
>
>
> > No programmer here :(But what I am really wondering is why is this
> > vfo drift so much? I have a Hendricks kit BITX20 on 20 meters which is
> > fairly stable and the Mkars kit was designed around that? Maybe its
> > because of the 3 Poly caps in the VFO?
> >
> > Thanks
> > Mike WA3O
> >
> >
> >
> > --- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Mike,
> >>
> >> The easiest way to disable the Huff and Puff is to pull the micro -
> > you obviously won't get a display but you will be able to determine if
> > its stable enough for you. I think you will put the micro back quite
> > quickly!
> >>
> >> Its always best to let the radio warm up for at least half an hour
> > and keep an eye on the bar graph (lower right of display), if the bar
> > gets to either end its time to hand the QSO back and centre the
> > tuning. You might find it more pleasant to operate by using a slow
> > motion drive on the polyvaricon - I don't but its personal preference.
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> >> Steve G6ALU
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> >> My web site: www.radio-kits. co.uk
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> >> ----- Original Message -----
> >> From: Mike
> >> To: mkars80@yahoogroups .co.uk
> >> Sent: Tuesday, September 23, 2008 1:09 AM
> >> Subject: [mkars80] How can I turn off the Huff and Puff?
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> >> Hey Guys,
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> >> I am having trouble with the "Huff and Puff" that will throw
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> >> correction?
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> >> Thanks
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> > 20/09/2008 10:24
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> >> [Non-text portions of this message have been removed]
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23/09/2008
> 18:32
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.169 / Virus Database: 270.7.4/1695 - Release Date: 27/09/2008 13:11

[Non-text portions of this message have been removed]

307. Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-10 13:41:27 UTC
From: Matthew Robinson
Topic: 307 Message: 307

Hi all,

I have just uploaded a new version of the software for the PIC processor that displays an Out Of Band warning when the radio is tuned outside of the Australian 80m band. In Australia we have a "hole" in our 80m band between 3.7MHz and 3.776MHz and I have modified the software to warn when the radio is tuned inside this "hole." The software also displays the OOB warning if the radio is tuned below 3.5MHz and above 3.8MHz.

I have uploaded the new files (the assembler and the HEX files) to the "Out of Band Software Mod" directory in the Files section. To build the software you'll also need the include files from the original source code package.

It shouldn't be too difficult to modify this code for different "holes" in other areas. Feel free to contact me if you are interested in this modification.

Matt - VK6MSR

308. Re: [mkars80] Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-10 16:25:15 UTC
From: Tony Olewicz
Topic: 307 Message: 308

Matt,
That sounds great.
Would you be able to post a version that doesn't have holes as well?
It would be really useful.
73
G6XMO
Tony

--- On Fri, 10/10/08, Matthew Robinson <scytale30@...> wrote:
From: Matthew Robinson <scytale30@...>
Subject: [mkars80] Software modification to show Out Of Band warning
To: mkars80@...
Date: Friday, 10 October, 2008, 2:41 PM

Hi all,

I have just uploaded a new version of the software for the PIC

processor that displays an Out Of Band warning when the radio is tuned

outside of the Australian 80m band. In Australia we have a "hole" in

our 80m band between 3.7MHz and 3.776MHz and I have modified the

software to warn when the radio is tuned inside this "hole." The

software also displays the OOB warning if the radio is tuned below

3.5MHz and above 3.8MHz.

I have uploaded the new files (the assembler and the HEX files) to the

"Out of Band Software Mod" directory in the Files section. To build

the software you'll also need the include files from the original

source code package.

It shouldn't be too difficult to modify this code for different

"holes" in other areas. Feel free to contact me if you are interested

in this modification.

Matt - VK6MSR

[Non-text portions of this message have been removed]

309. Re: [mkars80] Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-10 16:28:57 UTC
From: Steve Drury
Topic: 307 Message: 309

I don't suppose it would take too much to generate a warning when outside the UK SSB allocations... any one want to try?

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Tony Olewicz
To: mkars80@...
Sent: Friday, October 10, 2008 5:25 PM
Subject: Re: [mkars80] Software modification to show Out Of Band warning

Matt,
That sounds great.
Would you be able to post a version that doesn't have holes as well?
It would be really useful.
73
G6XMO
Tony

--- On Fri, 10/10/08, Matthew Robinson <scytale30@...> wrote:
From: Matthew Robinson <scytale30@...>
Subject: [mkars80] Software modification to show Out Of Band warning
To: mkars80@...
Date: Friday, 10 October, 2008, 2:41 PM

Hi all,

I have just uploaded a new version of the software for the PIC

processor that displays an Out Of Band warning when the radio is tuned

outside of the Australian 80m band. In Australia we have a "hole" in

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It shouldn't be too difficult to modify this code for different

"holes" in other areas. Feel free to contact me if you are interested

in this modification.

Matt - VK6MSR

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.173 / Virus Database: 270.7.6/1714 - Release Date: 08/10/2008 07:01

[Non-text portions of this message have been removed]

310. Re: [mkars80] Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-10 16:32:32 UTC
From: Steve Drury
Topic: 307 Message: 310

If you want to program your own PICs you will need a programmer, for those with a serial posrt see Winpic (www.qsl.net/dl4yhf), the help file includes details of programmers - I use the simplest!

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Friday, October 10, 2008 5:28 PM
Subject: Re: [mkars80] Software modification to show Out Of Band warning

I don't suppose it would take too much to generate a warning when outside the UK SSB allocations... any one want to try?

Steve G6ALU

My web site: www.radio-kits.co.uk

----- Original Message -----
From: Tony Olewicz
To: mkars80@...
Sent: Friday, October 10, 2008 5:25 PM
Subject: Re: [mkars80] Software modification to show Out Of Band warning

Matt,
That sounds great.
Would you be able to post a version that doesn't have holes as well?
It would be really useful.
73
G6XMO
Tony

--- On Fri, 10/10/08, Matthew Robinson <scytale30@...> wrote:
From: Matthew Robinson <scytale30@...>
Subject: [mkars80] Software modification to show Out Of Band warning
To: mkars80@...
Date: Friday, 10 October, 2008, 2:41 PM

Hi all,

I have just uploaded a new version of the software for the PIC

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software also displays the OOB warning if the radio is tuned below

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It shouldn't be too difficult to modify this code for different

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Matt - VK6MSR

[Non-text portions of this message have been removed]

Yahoo! Groups Links

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

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Version: 8.0.173 / Virus Database: 270.7.6/1714 - Release Date: 08/10/2008 07:01

[Non-text portions of this message have been removed]

311. Re: Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-13 03:33:20 UTC
From: Matthew Robinson
Topic: 307 Message: 311

I use a serial programmer that is available as a kit from Jaycar (think Maplin but in Australia). I like it because it has ZIF sockets for the processor chips. It is designed to use the WinPIC software that Steve mentioned and I use it with a USB-Serial adapter as serial ports are becoming a dying breed.

The kit was originally published in the May 2008 issue of Silicon Chip magazine here in Australia. Information on the Jaycar kit is available at http://www.jaycar.com.au/productView.asp?ID=KC5467

HTH,

Matt

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> If you want to program your own PICs you will need a programmer, for those with a serial posrt see Winpic (www.qsl.net/dl4yhf), the help file includes details of programmers - I use the simplest!
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Friday, October 10, 2008 5:28 PM
> Subject: Re: [mkars80] Software modification to show Out Of Band warning
>
>
> I don't suppose it would take too much to generate a warning when outside the UK SSB allocations... any one want to try?
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: Tony Olewicz
> To: mkars80@yahoogroups.co.uk
> Sent: Friday, October 10, 2008 5:25 PM
> Subject: Re: [mkars80] Software modification to show Out Of Band

warning
>
>
> Matt,
> That sounds great.
> Would you be able to post a version that doesn't have holes as well?
> It would be really useful.
> 73
> G6XMO
> Tony
>
> --- On Fri, 10/10/08, Matthew Robinson <scytale30@...> wrote:
> From: Matthew Robinson <scytale30@...>
> Subject: [mkars80] Software modification to show Out Of Band warning
> To: mkars80@...
> Date: Friday, 10 October, 2008, 2:41 PM
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> Hi all,
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> software to warn when the radio is tuned inside this "hole." The
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> software also displays the OOB warning if the radio is tuned below
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> 3.5MHz and above 3.8MHz.
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> I have uploaded the new files (the assembler and the HEX files)

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> source code package.
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> It shouldn't be too difficult to modify this code for different
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> Matt - VK6MSR
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08/10/2008 07:01
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> [Non-text portions of this message have been removed]
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312. Re: Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-13 03:48:31 UTC
From: Matthew Robinson
Topic: 307 Message: 312

I am happy to make a UK version of my hack if someone wants to confirm the details of the band and the SSB windows within the band.

I am inclined to keep the current OOB display for Out of Band and display something else for "Out of band plan". Does anyone have a suggestion for a 3 or 4 character message to show out of band plan, perhaps OOBP? Also would people like me to place the boundary at the actual boundary or 3kHz above the boundary to account for the bandwidth of LSB?

Matt VK6MSR

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> I don't suppose it would take too much to generate a warning when outside the UK SSB allocations... any one want to try?
>
> Steve G6ALU
>
> My web site: www.radio-kits.co.uk
>
>
> ----- Original Message -----
> From: Tony Olewicz
> To: mkars80@...
> Sent: Friday, October 10, 2008 5:25 PM
> Subject: Re: [mkars80] Software modification to show Out Of Band warning
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> Matt,
> That sounds great.
> Would you be able to post a version that doesn't have holes as well?
> It would be really useful.
> 73
> G6XMO
> Tony
>
> --- On Fri, 10/10/08, Matthew Robinson <scytale30@...> wrote:
> From: Matthew Robinson <scytale30@...>
> Subject: [mkars80] Software modification to show Out Of Band warning
> To: mkars80@....uk
> Date: Friday, 10 October, 2008, 2:41 PM
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> Hi all,
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> software also displays the OOB warning if the radio is tuned below
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> Version: 8.0.173 / Virus Database: 270.7.6/1714 - Release Date:
08/10/2008 07:01
>
>
> [Non-text portions of this message have been removed]
>

313. Re: [mkars80] Re: Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-13 11:26:06 UTC
From: Tony Olewicz
Topic: 307 Message: 313

Matt,
It would be gratefully received!
Here's a link to the bandplan.
http://www.rsgb-spectrumforum.org.uk/bandplan.htm

The lowest LSB setting it says to use is 3,603KHz

Perhaps you could display the message on the supply voltage line on the display, which changes back to voltage when in band?

Not sure what the highest setting would be - assume it would account for the 3kHz offset and be 3,803kHz, so that the emission is still in the amateur band - anyone more expert care to comment on that, or should it be 3.8MHz dead to be on the safe side?

would "Out of 80m Bandplan" Fit the width of the display?

73
Tony

--- On Mon, 13/10/08, Matthew Robinson <scytale30@...> wrote:

From: Matthew Robinson <scytale30@...>
Subject: [mkars80] Re: Software modification to show Out Of Band warning
To: mkars80@...
Date: Monday, 13 October, 2008, 4:48 AM

I am happy to make a UK version of my hack if someone wants to confirm
the details of the band and the SSB windows within the band.

I am inclined to keep the current OOB display for Out of Band and
display something else for "Out of band plan". Does anyone have a
suggestion for a 3 or 4 character message to show out of band plan,
perhaps OOBP? Also would people like me to place the boundary at the
actual boundary or 3kHz above the boundary to account for the
bandwidth of LSB?

Matt VK6MSR

--- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
>
> I don't suppose it would take too much to generate a warning when
outside the UK SSB allocations. .. any one want to try?
>
> Steve G6ALU
>
> My web site: www.radio-kits. co.uk
>
>

> ----- Original Message -----
> From: Tony Olewicz
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, October 10, 2008 5:25 PM
> Subject: Re: [mkars80] Software modification to show Out Of Band
warning
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> Matt,
> That sounds great.
> Would you be able to post a version that doesn't have holes as well?
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> 73
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> --- On Fri, 10/10/08, Matthew Robinson <scytale30@. ..> wrote:
> From: Matthew Robinson <scytale30@. ..>
> Subject: [mkars80] Software modification to show Out Of Band warning
> To: mkars80@yahoogroups .co.uk
> Date: Friday, 10 October, 2008, 2:41 PM
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> Hi all,
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314. Re: Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-14 03:29:56 UTC
From: Matthew Robinson
Topic: 307 Message: 314

Hi Tony,

The code handling the display of the second line is quite tightly integrated in to the Huff and Puff code. Given that I am still learning my way around the source code for the MKARS80 I've been sticking to only writing to the first line as that is all contained in the frequency display section of the code (which is where I'm doing the tests to see if we are OOB).

In the first instance I can make some modifications to show OOP or OOBP in the top line. If I have time to get more involved with the source code I might be able to use the second line in some instances.

I shall see what I can do. However, I'm about to go away for a couple of weeks so it might be the end of October till I get to it.

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> http://www.rsgb-spectrumforum.org.uk/bandplan.htm
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> The lowest LSB setting it says to use is 3,603KHz
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> Perhaps you could display the message on the supply voltage line on the display, which changes back to voltage when in band?
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> Not sure what the highest setting would be - assume it would account for the 3kHz offset and be 3,803kHz, so that the emission is still in the amateur band - anyone more expert care to comment on that, or should it be 3.8MHz dead to be on the safe side?
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> --- On Mon, 13/10/08, Matthew Robinson <scytale30@...> wrote:
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> From: Matthew Robinson <scytale30@...>

> Subject: [mkars80] Re: Software modification to show Out Of Band warning
> To: mkars80@...
> Date: Monday, 13 October, 2008, 4:48 AM
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> the details of the band and the SSB windows within the band.
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> > My web site: www.radio-kits. co.uk
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> > ----- Original Message -----
> > From: Tony Olewicz
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, October 10, 2008 5:25 PM
> > Subject: Re: [mkars80] Software modification to show Out Of Band
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> > Would you be able to post a version that doesn't have holes as well?
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> > G6XMO
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> > From: Matthew Robinson <scytale30@ ..>
> > Subject: [mkars80] Software modification to show Out Of Band warning

> > To: mkars80@yahoogroups .co.uk
> > Date: Friday, 10 October, 2008, 2:41 PM
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315. Re: [mkars80] Re: Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-14 08:32:24 UTC
From: Tony Olewicz
Topic: 307 Message: 315

Matt,
OOB on first line is still fine with me.
I'm not in any particular hurry - have written the band limits near the readout on the rig (QRP approach there)
Haven't looked at the source code yet myself...
Been busy building a few more bits to go with the MKARS80.
Here are the links...
http://4sqrp.com/kits/td/td.htm
Antenna analyser on a budget.
Could be built from the schematic without the morse annunciated frequency.

http://www.pongrance.com/
Digital dial on a tighter budget, can be used as a frequency counter.

73
Tony

--- On Tue, 14/10/08, Matthew Robinson <scytale30@...> wrote:

From: Matthew Robinson <scytale30@...>
Subject: [mkars80] Re: Software modification to show Out Of Band warning
To: mkars80@...
Date: Tuesday, 14 October, 2008, 4:29 AM

Hi Tony,

The code handling the display of the second line is quite tightly
integrated in to the Huff and Puff code. Given that I am still
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the frequency display section of the code (which is where I'm doing
the tests to see if we are OOB).

In the first instance I can make some modifications to show OOP or
OOBP in the top line. If I have time to get more involved with the
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I shall see what I can do. However, I'm about to go away for a couple
of weeks so it might be the end of October till I get to it.

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> The lowest LSB setting it says to use is 3,603KHz
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316. OT: Aerials for portable operation

Yahoo group: mkars80
Date: 2008-10-14 09:11:47 UTC
From: Steve, G4GXL
Topic: 316 Message: 316

The size and shape of the MKARS80 make it ideal for operating
'pedestrian mobile' (as it used to be called).
Unfortunately the efficiency of short verticals on 80m creates a challenge.

I'm thinking of a 6 foot centre loaded vertical on a backpack with a
trailing 30 foot wire counterpoise (I usually walk around the Norfolk
coast where there's plenty of space).
Anyone trying something similar - what results are you getting ?

73
Steve, G4GXL
--
QRP ARCI Webmaster - www.qrparci.org
MyAPRS Map - www.g4gxl.com/aprs
Member: QRP ARCI, G-QRP, TAPR, ARRL, RSGB, BATC

http://www.ServaLink.net - monitoring your website 24/7
Email or phone notification of faults, hacks and outages within 60
seconds. Take our 14 day FREE TRIAL !

317. Re: Software modification to show Out Of Band warning

Yahoo group: mkars80
Date: 2008-10-14 09:37:04 UTC
From: Matthew Robinson
Topic: 307 Message: 317

Hi Tony,

I'll see what I can do in the next couple of days. Shouldn't take too much work to get a UK version done.

I've just finished building (still need to box it) an Antenna Analyser from VK5JST. From my first quick tests last night it seems rather nice :) Kits are available from the South Coast Amateur Radio Club, http://www.scarc.org.au/projects.html

I think we are quite spoilt in Australia for good kits (I certainly think they are better than the kits I remember being available in Maplin et al in the UK). Jaycar (http://www.jaycar.com.au) and Altronics (http://www.altronics.com.au) have a good range of kits. Altronics recently released a rather nice Digital LC meter which I built a few weeks ago, http://www.altronics.com.au/index.asp?area=item&id=K2533

Silicon Chip magazine here in Aus has some excellent projects and a lot of the Jaycar/Altronics kits were originally published in SC.

I was reading up on a GPS 10MHz frequency source today in a couple of back issues that looks rather nice. A little pricey (about AUD350 ~ GBP140) but you do require a Garmin GPS OEM module and external antenna. Still much cheaper than a commercial version though.

--- In mkars80@..., Tony Olewicz <hamfm1000@...> wrote:
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> Matt,
> OOB on first line is still fine with me.
> I'm not in any particular hurry - have written the band limits near theÂ readoutÂ on the rig (QRP approach there)
> Haven't looked at the source code yet myself...
> Been busy building a few more bits to go with the MKARS80.
> Here are the links...
> http://4sqrp.com/kits/td/td.htm
> Antenna analyser on a budget.
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> Digital dial on a tighter budget, can be used as a frequency counter.
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318. RE: [mkars80] OT: Aerials for portable operation

Yahoo group: mkars80
Date: 2008-10-14 10:32:26 UTC
From: David White
Topic: 316 Message: 318

i used to use a 20 metre vertical on 80 metres. it was 17 foot tall and got good results amazingly but used counterpoise wire a few feet above ground. never tried one as short as 6 feet though - de G3ZPA

NNNN

To: mkars80@...: steve.g4gxl@...: Tue, 14 Oct 2008 10:11:47 +0100Subject: [mkars80] OT: Aerials for portable operation

The size and shape of the MKARS80 make it ideal for operating'pedestrian mobile' (as it used to be called).Unfortunately the efficiency of short verticals on 80m creates a challenge.I'm thinking of a 6 foot centre loaded vertical on a backpack with atrailing 30 foot wire counterpoise (I usually walk around the Norfolkcoast where there's plenty of space).Anyone trying something similar - what results are you getting ?73Steve, G4GXL--QRP ARCI Webmaster - www.qrparci.orgMyAPRS Map - www.g4gxl.com/aprsMember: QRP ARCI, G-QRP, TAPR, ARRL, RSGB, BATChttp://www.ServaLink.net - monitoring your website 24/7Email or phone notification of faults, hacks and outages within 60seconds. Take our 14 day FREE TRIAL !

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Make a mini you and download it into Windows Live Messenger
http://clk.atdmt.com/UKM/go/111354029/direct/01/

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319. Leicester rally

Yahoo group: mkars80
Date: 2008-10-19 21:27:40 UTC
From: Steve drury
Topic: 319 Message: 319

I will have a stand at the Leicester amateur radio show
http://www.lars.org.uk/ next Friday and Saturday so if any one is
visiting you are welcome to come and say hello.

I will have spares with me so if you have some thing missing or broken
anything come and get it replaced!

Steve G6ALU

320. Re: Leicester rally

Yahoo group: mkars80
Date: 2008-10-20 22:41:38 UTC
From: yorkie_1962
Topic: 319 Message: 320

--- In mkars80@..., "Steve drury" <g6alu@...> wrote:
>
> I will have a stand at the Leicester amateur radio show
> http://www.lars.org.uk/ next Friday and Saturday so if any one is
> visiting you are welcome to come and say hello.
>
> I will have spares with me so if you have some thing missing or
broken
> anything come and get it replaced!
>
> Steve G6ALU
>
I look forward to having a chat with you in person Steve, I will be
visiting the show on saturday.

Gordon M3VVH

321. Re: [mkars80] Re: Leicester rally

Yahoo group: mkars80
Date: 2008-10-21 07:10:02 UTC
From: g6alu@tiscali.co.uk
Topic: 319 Message: 321

OK Gordon, see you then.

Steve

>----Original Message----
>From: carless7@...
>Date: 20/10/2008 23:41
>To: <mkars80@...>
>Subj: [mkars80] Re: Leicester rally
>
>--- In mkars80@..., "Steve drury" <g6alu@...> wrote:
>>
>> I will have a stand at the Leicester amateur radio show
>> http://www.lars.org.uk/ next Friday and Saturday so if any one is
>> visiting you are welcome to come and say hello.
>>
>> I will have spares with me so if you have some thing missing or
>broken
>> anything come and get it replaced!
>>
>> Steve G6ALU
>>
>I look forward to having a chat with you in person Steve, I will be
>visiting the show on saturday.
>
>Gordon M3VVH
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
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>
>

Free Games for all the family - http://www.tiscali.co.uk/play

_____

322. Is this kit suitable for PSK31

Yahoo group: mkars80
Date: 2008-10-27 15:30:24 UTC
From: g8xlh
Topic: 322 Message: 322

Hi All,

Is this kit stable enough to run PSK31 ?

Using standard PC/Soundcard programs like MIXW and Digipan ?

Regards

Alan
G8XLH

323. Re: [mkars80] Is this kit suitable for PSK31

Yahoo group: mkars80
Date: 2008-10-27 21:37:07 UTC
From: Steve Drury
Topic: 322 Message: 323

Good evening Alan,

Although I used the first prototype with Digipan and had my first ever contact (on the MKARS80) with a station in the Czech republic I don't think the radio is well suited to this mode.

The problem is that PSK31 along with CW and other digital modes have a higher duty cycle than plain speech SSB, this causes increased heating of the circuit board which in turn induces frequency drift through warming of the Polyvaricon.

If you did want to try PSK31 it may be worth housing the radio in a larger case, I have also heard that small fans have been used to keep the "internals" at a more even temperature when on digi modes but don't have any experience of this myself.

Regards,
Steve G6ALU

----- Original Message -----
From: "g8xlh" <a.ralph4@...>
To: <mkars80@...>
Sent: Monday, October 27, 2008 3:30 PM
Subject: [mkars80] Is this kit suitable for PSK31

> Hi All,
>
> Is this kit stable enough to run PSK31 ?
>
> Using standard PC/Soundcard programs like MIXW and Digipan ?
>
> Regards
>
> Alan
> G8XLH
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.8.4/1749 - Release Date: 10/27/2008
7:57 AM

324. Where can I buy ?

Yahoo group: mkars80
Date: 2008-11-01 17:50:17 UTC
From: g8xlh
Topic: 324 Message: 324

Hi all,

Are there any kits left in stock at the present time (Complete Kits) since I live quite close to MK, I wonder if it would be possible to pick one up on either club night or BP open day ? I can eith pay cash or pre-pay via paypal.

REgards

Alan G8XLH

325. Re: [mkars80] Where can I buy ?

Yahoo group: mkars80
Date: 2008-11-01 23:01:57 UTC
From: Steve Drury
Topic: 324 Message: 325

Hello Alan,

Kits are available from me and they are available from stock but unfortunately I wont be at the Milton Keynes club this Monday, I will make arrangements off the group if you would like one.

Regards,
Steve G6ALU

----- Original Message -----
From: "g8xlh" <a.ralph4@...>
To: <mkars80@...>
Sent: Saturday, November 01, 2008 5:50 PM
Subject: [mkars80] Where can I buy ?

> Hi all,
>
> Are there any kits left in stock at the present time (Complete Kits)
> since I live quite close to MK, I wonder if it would be possible to
> pick one up on either club night or BP open day ? I can eith pay cash
> or pre-pay via paypal.
>
> REgards
>
> Alan G8XLH
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.8.5/1760 - Release Date: 11/1/2008
9:36 AM

326. Slow Progress

Yahoo group: mkars80
Date: 2008-11-12 01:14:15 UTC
From: Paul
Topic: 326 Message: 326

Hi All,

Uploaded some photos (awaiting approval though) of my kits progress.

It's a bit slow going as it is the first kit I have built other than morse kit for my 2E course, but getting lots of advice and some assistance from my local clubs which is good.

Think I am over half way though.

My uncle who got me interested in the hobby passed away in Feb this year, but I am sure he would be amazed I even attempted it.

Anyway, apart from downloading the wrong manual, and worried about the windings, so far haven't been any major problems.

Only hope when the day comes to add power to it, it works.

Will keep pressing on during these cold winter months, and thanks to the Steve & Milton Keynes club for the best way I have spent £45 in the hobby this year!

73

Paul M0TZO

327. Ducumentation ?

Yahoo group: mkars80
Date: 2008-11-12 10:18:04 UTC
From: g8xlh
Topic: 327 Message: 327

Hi,

I wonder if someone could load the complete set of docs for the kit into the files area ? As it used to be easy to get them via the MK website , but unfortunatly my PC no longer likes the new MK website and my PC wants to report various area's as harmfull to the PC and wants to quarentine them etc....

Regards

Alan G8XLH

328. Re: Ducumentation ?

Yahoo group: mkars80
Date: 2008-11-12 13:31:35 UTC
From: Steve drury
Topic: 327 Message: 328

Hi Alan,

I have loaded an updated version of the manual into the files section (V1.2), this is completely compatible with version V1.1 radios as the only changes have been clarifications and error corections.

V1.2 manual is NOT compatible with V1.0 radios, I will add these to the file section later.

Apologies for the inconvenience I will do my best to get the original site re-instated and will probably have the files linked to my site directly.

Regards,
Steve G6ALU

--- In mkars80@..., "g8xlh" <a.ralph4@...> wrote:
>
> Hi,
>
> I wonder if someone could load the complete set of docs for the kit
> into the files area ? As it used to be easy to get them via the MK
> website , but unfortunatly my PC no longer likes the new MK website
and
> my PC wants to report various area's as harmfull to the PC and wants
to
> quarentine them etc....
>
> Regards
>
> Alan G8XLH
>

329. Re: Ducumentation ?

Yahoo group: mkars80
Date: 2008-11-12 20:25:16 UTC
From: g8xlh
Topic: 327 Message: 329

HI Steve,

Much appreciated

regards

Alan

330. Re:Ducumentation ?

Yahoo group: mkars80
Date: 2008-11-12 21:09:52 UTC
From: John Housego
Topic: 327 Message: 330

Hello All,

Apologies for the problem with MKARS documentation download this has resulted due to a change of MKARS web site.

I will reinstate the old page containing MKARS down load documentation tomorrow (13 Nov) and will advise accordingly.

This was out of the control of Steve G6ALU, my apologies for any inconvenience caused.

John (M0TIF)

331. Re: [mkars80] Re:Ducumentation ?

Yahoo group: mkars80
Date: 2008-11-12 21:12:53 UTC
From: Steve Drury
Topic: 327 Message: 331

Not a problem John,

I have put all the relavent data on my website - www.radio-kits.co.uk

Steve G6ALU

----- Original Message -----
From: "John Housego" <John.Housego1@...>
To: <mkars80@...>
Sent: Wednesday, November 12, 2008 9:09 PM
Subject: [mkars80] Re:Ducumentation ?

> Hello All,
>
> Apologies for the problem with MKARS documentation download this has
> resulted due to a change of MKARS web site.
>
> I will reinstate the old page containing MKARS down load documentation
> tomorrow (13 Nov) and will advise accordingly.
>
> This was out of the control of Steve G6ALU, my apologies for any
> inconvenience caused.
>
> John (M0TIF)
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.2/1783 - Release Date: 11/12/2008
10:01 AM

332. Re: Slow Progress

Yahoo group: mkars80
Date: 2008-11-12 21:24:49 UTC
From: Steve drury
Topic: 326 Message: 332

I like your pictures Paul, colouring in the components on an overlay as you procede seems a good idea, it certainly helps you keep track of what you have fitted.

If any one has more pictures they are free to upload them to the site, I (and many builders) are always interested in different cases etc.

Steve G6ALU

--- In mkars80@..., "Paul" <paul@...> wrote:
>
> Hi All,
>
> Uploaded some photos (awaiting approval though) of my kits progress.
>
> It's a bit slow going as it is the first kit I have built other than
> morse kit for my 2E course, but getting lots of advice and some
> assistance from my local clubs which is good.
>
> Think I am over half way though.
>
> My uncle who got me interested in the hobby passed away in Feb this
> year, but I am sure he would be amazed I even attempted it.
>
> Anyway, apart from downloading the wrong manual, and worried about the
> windings, so far haven't been any major problems.
>
> Only hope when the day comes to add power to it, it works.
>
> Will keep pressing on during these cold winter months, and thanks to
> the Steve & Milton Keynes club for the best way I have spent £45 in
> the hobby this year!
>
> 73
>
> Paul M0TZO
>

333. RE: [mkars80] Re:Ducumentation ?

Yahoo group: mkars80
Date: 2008-11-12 23:07:42 UTC
From: David White
Topic: 327 Message: 333

interesting - QSL info john de G3ZPA

NNNN

To: mkars80@...: John.Housego1@...: Wed, 12 Nov 2008 21:09:52 +0000Subject: [mkars80] Re:Ducumentation ?

Hello All,Apologies for the problem with MKARS documentation download this has resulted due to a change of MKARS web site.I will reinstate the old page containing MKARS down load documentation tomorrow (13 Nov) and will advise accordingly.This was out of the control of Steve G6ALU, my apologies for any inconvenience caused.John (M0TIF)

See the most popular videos on the web
http://clk.atdmt.com/GBL/go/115454061/direct/01/

[Non-text portions of this message have been removed]

334. mkars80

Yahoo group: mkars80
Date: 2008-11-14 22:25:06 UTC
From: johnjardine56
Topic: 102 Message: 334

Hi Steve just finished my mkars80 kit which I purchased at the Leicester Radio Rally and pleased to say it all works ok, just a couple of things which may help other builders, I fitted a chassis mounted BNC socket to my case and then soldered short lengths of wire to the PCB this makes it much easier to remove the PCB if needed and also helped me mark out the underside of the case for the controls etc Instead of making the display plug and play I've fitted short lengths of wire to the PCB and LCD display about 2.5" long and fixed the display to the case with PVC insulation tape making sure there were no shorts first, and just a little problem I had with the tuning range, I could not get the frequency above 3.55Mhz but by closing together the windings on L5 the radio now tunes across the full 80M band and then a blob of epoxy glue to keep the windings in place.
I'm only using the radio on receive as I am learnig morse code and this is perfect for that plus I dont have a "proper" aerial up at the moment just a long wire, but I've been listening in on "Italian" amatuer stations over the passed few nights with ease.
I'll post some photos when I've finished the front case etc
Thanks for a great little kit
John G7UYJ.

335. Re: [mkars80] mkars80

Yahoo group: mkars80
Date: 2008-11-15 17:34:56 UTC
From: Steve Drury
Topic: 102 Message: 335

Hello John,
I'm not sure why you had to close the turns up but if it works leave it -
did you check the number of turns?

Before modifying I advise everyone to build as intended, at least then you
know it should work!

I look forward to seeing the photos John.

Regards,
Steve G6ALU

----- Original Message -----
From: "johnjardine56" <johnjardine56@...>
To: <mkars80@...>
Sent: Friday, November 14, 2008 10:25 PM
Subject: [mkars80] mkars80

> Hi Steve just finished my mkars80 kit which I purchased at the
> Leicester Radio Rally and pleased to say it all works
> ok, just a couple of things which may help other builders, I fitted a
> chassis mounted BNC socket to my case and then soldered short lengths
> of wire to the PCB this makes it much easier to remove the PCB if
> needed and also helped me mark out the underside of the case for the
> controls etc Instead of making the display plug and play I've fitted
> short lengths of wire to the PCB and LCD display about 2.5" long and
> fixed the display to the case with PVC insulation tape making sure
> there were no shorts first, and just a little problem I had with the
> tuning range, I could not get the frequency above 3.55Mhz but by
> closing together the windings on L5 the radio now tunes across the
> full 80M band and then a blob of epoxy glue to keep the windings in
> place.
> I'm only using the radio on receive as I am learnig morse code and
> this is perfect for that plus I dont have a "proper" aerial up at the
> moment just a long wire, but I've been listening in on "Italian"
> amatuer stations over the passed few nights with ease.
> I'll post some photos when I've finished the front case etc
> Thanks for a great little kit
> John G7UYJ.
>
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>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008
9:12 AM

336. Re: mkars80

Yahoo group: mkars80
Date: 2008-11-15 18:56:30 UTC
From: johnjardine56
Topic: 102 Message: 336

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hello John,
> I'm not sure why you had to close the turns up but if it works
leave it -
> did you check the number of turns?
>
> Before modifying I advise everyone to build as intended, at least
then you
> know it should work!
>
> I look forward to seeing the photos John.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "johnjardine56" <johnjardine56@...>
> To: <mkars80@...>
> Sent: Friday, November 14, 2008 10:25 PM
> Subject: [mkars80] mkars80
>
>
> > Hi Steve just finished my mkars80 kit which I purchased at the
> > Leicester Radio Rally and pleased to say it all works
> > ok, just a couple of things which may help other builders, I
fitted a
> > chassis mounted BNC socket to my case and then soldered short
lengths
> > of wire to the PCB this makes it much easier to remove the PCB if
> > needed and also helped me mark out the underside of the case for
the
> > controls etc Instead of making the display plug and play I've
fitted
> > short lengths of wire to the PCB and LCD display about 2.5" long
and
> > fixed the display to the case with PVC insulation tape making sure
> > there were no shorts first, and just a little problem I had with
the
> > tuning range, I could not get the frequency above 3.55Mhz but by
> > closing together the windings on L5 the radio now tunes across the
> > full 80M band and then a blob of epoxy glue to keep the windings
in
> > place.
> > I'm only using the radio on receive as I am learnig morse code and

> > this is perfect for that plus I dont have a "proper" aerial up at
the
> > moment just a long wire, but I've been listening in on "Italian"
> > amatuer stations over the passed few nights with ease.
> > I'll post some photos when I've finished the front case etc
> > Thanks for a great little kit
> > John G7UYJ.
> >
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date:
11/13/2008
> 9:12 AM
>
Hi steve thanks for the reply, I'm sure I had the correct number of
turns it may be that I didn't wind them tight enough and like you say
build as per instructions you know it's right if you do.
Then find out why it's not working.
Once again thanks for a great radio kit.
John G7UYJ

337. MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-16 15:23:25 UTC
From: John
Topic: 337 Message: 337

Hello Folks,

It would be really nice to QSO with other MKARS80's so how about starting an MKARS80 net?

I appreciate whatever time is suggested unfortunately there will always be those who cannot get to the MKARS80 for whatever reason but I think over a weekend is best so how about next Saturday 22nd November at 15:00hrs UK local, Frequency 3.730?

Hope to work a few of you.

73 John (M0TIF)

338. Re: [mkars80] MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-16 15:47:32 UTC
From: Steve Drury
Topic: 337 Message: 338

I'm game for it John but that frequency is normally used by the data men.

Steve G6ALU

----- Original Message -----
From: "John" <John.Housego1@...>
To: <mkars80@...>
Sent: Sunday, November 16, 2008 3:23 PM
Subject: [mkars80] MKARS80 net?

> Hello Folks,
>
> It would be really nice to QSO with other MKARS80's so how about
> starting an MKARS80 net?
>
> I appreciate whatever time is suggested unfortunately there will
> always be those who cannot get to the MKARS80 for whatever reason but
> I think over a weekend is best so how about next Saturday 22nd
> November at 15:00hrs UK local, Frequency 3.730?
>
> Hope to work a few of you.
>
> 73 John (M0TIF)
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008
9:12 AM

339. RE: [mkars80] MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-16 16:40:35 UTC
From: David White
Topic: 337 Message: 339

yep i have been on 3730 Kc/s before and politely told to move as its the SSTV frequency de G3ZPA

NNNN

To: mkars80@...: g6alu@...: Sun, 16 Nov 2008 15:47:32 +0000Subject: Re: [mkars80] MKARS80 net?

I'm game for it John but that frequency is normally used by the data men.Steve G6ALU----- Original Message ----- From: "John" <John.Housego1@...>To: <mkars80@...>Sent: Sunday, November 16, 2008 3:23 PMSubject: [mkars80] MKARS80 net?> Hello Folks,>> It would be really nice to QSO with other MKARS80's so how about> starting an MKARS80 net?>> I appreciate whatever time is suggested unfortunately there will> always be those who cannot get to the MKARS80 for whatever reason but> I think over a weekend is best so how about next Saturday 22nd> November at 15:00hrs UK local, Frequency 3.730?>> Hope to work a few of you.>> 73 John (M0TIF)>>> ------------------------------------>> Yahoo! Groups Links>>>--No virus found in this incoming message.Checked by AVG - http://www.avg.comVersion: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008 9:12 AM

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http://clk.atdmt.com/GBL/go/115454061/direct/01/

[Non-text portions of this message have been removed]

340. RE: [mkars80] MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-16 19:35:36 UTC
From: DAVID CLENCH
Topic: 337 Message: 340

Hi All

I have my mkars80 up and running and have had good on air reports. Its a really nice rig. Thanks to Steve for his help with a couple of queries. A net is a great idea.....what about 3.700 + or - ?

Dave G0BVV

--- On Sun, 16/11/08, David White <davidwhite400@...> wrote:
From: David White <davidwhite400@...>
Subject: RE: [mkars80] MKARS80 net?
To: mkars80@...
Date: Sunday, 16 November, 2008, 4:40 PM

yep i have been on 3730 Kc/s before and politely told to move as its the SSTV frequency de G3ZPA

NNNN

To: mkars80@yahoogroups .co.ukFrom: g6alu@tiscali. co.ukDate: Sun, 16 Nov 2008 15:47:32 +0000Subject: Re: [mkars80] MKARS80 net?

I'm game for it John but that frequency is normally used by the data men.Steve G6ALU----- Original Message ----- From: "John" <John.Housego1@ tiscali.co. uk>To: <mkars80@yahoogroups .co.uk>Sent: Sunday, November 16, 2008 3:23 PMSubject: [mkars80] MKARS80 net?> Hello Folks,>> It would be really nice to QSO with other MKARS80's so how about> starting an MKARS80 net?>> I appreciate whatever time is suggested unfortunately there will> always be those who cannot get to the MKARS80 for whatever reason but> I think over a weekend is best so how about next Saturday 22nd> November at 15:00hrs UK local, Frequency 3.730?>> Hope to work a few of you.>> 73 John (M0TIF)>>> ------------ --------- --------- ------>> Yahoo! Groups Links>>>---- --------- --------- --------- --------- --------- --------- No virus found in this incoming message.Checked by AVG - http://www.avg. comVersion: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008 9:12 AM

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http://clk.atdmt. com/GBL/go/ 115454061/ direct/01/

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

341. Re: MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-17 12:50:21 UTC
From: John
Topic: 337 Message: 341

Oooops, well spotted Steve, dont want to upset the data chaps so lets try 3.700 for the MKARS net next Saturday 22nd November 08 at 1500hrs UK local time.

73 John (M0TIF)

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I'm game for it John but that frequency is normally used by the data men.
>
> Steve G6ALU
>

342. Re: [mkars80] Re: MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-18 09:26:39 UTC
From: Steve Drury
Topic: 337 Message: 342

Morning John,

I will be there, I will put a message out on the MKARS club group.

Steve G6ALU

----- Original Message -----
From: "John" <John.Housego1@...>
To: <mkars80@...>
Sent: Monday, November 17, 2008 12:50 PM
Subject: [mkars80] Re: MKARS80 net?

> Oooops, well spotted Steve, dont want to upset the data chaps so lets
> try 3.700 for the MKARS net next Saturday 22nd November 08 at 1500hrs
> UK local time.
>
> 73 John (M0TIF)
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> I'm game for it John but that frequency is normally used by the data
> men.
>>
>> Steve G6ALU
>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008
9:12 AM

343. Re: [mkars80] Re: MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-22 15:38:11 UTC
From: Steve Drury
Topic: 337 Message: 343

It worked!

I logged the following stations on the NET this afternoon:

Alan GB2BP (2E0GLD) Bletchley Park Milton Keynes
Dave G0BVV South Coast (Bracklesham Bay?)
Ted G4OZG Kings Lynn
Calvin M1EPM Milton Keynes
Jack G3NEH Milton Keynes (40ft long wire)
And me Steve G6ALU Milton Keynes

We will perhaps try a net again in the future but a bit earlier in the day,
unfortunately European stations caused QRM towards the end of the net.

Thanks to all who took part and those listeners.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Tuesday, November 18, 2008 9:26 AM
Subject: Re: [mkars80] Re: MKARS80 net?

> Morning John,
>
> I will be there, I will put a message out on the MKARS club group.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John" <John.Housego1@...>
> To: <mkars80@...>
> Sent: Monday, November 17, 2008 12:50 PM
> Subject: [mkars80] Re: MKARS80 net?
>
>
>> Oooops, well spotted Steve, dont want to upset the data chaps so lets
>> try 3.700 for the MKARS net next Saturday 22nd November 08 at 1500hrs
>> UK local time.
>>
>> 73 John (M0TIF)
>>
>> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>>
>>> I'm game for it John but that frequency is normally used by the data
>> men.

>>>
>>> Steve G6ALU
>>>
>>
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>> ------------------------------------
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> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com
> Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008
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Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008
9:12 AM

344. i have a problem !!

Yahoo group: mkars80
Date: 2008-11-22 17:30:40 UTC
From: Dantomkia DTK steven gadsby
Topic: 344 Message: 344

hello all first off may i say what a wonderful kit. it was a pleasure
to build

i hoped to be on the net but i created a problem with my kit and
could do with some help please.
all was working ok on the rx side of things and was just starting to
set up the tx side when it happed i dropd my screwdriver on the pcb
and shorted something out . the problem i now have is i can receive
signals when r 2 is set to its minimum but as soon as i turn it even a
fraction i lose the audio/receive audio output any ideas would be
very much appreciated as aim not to hot on circuits
many thanks
steve G1OFW

345. Re: [mkars80] Re: MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-22 20:16:09 UTC
From: DAVID CLENCH
Topic: 337 Message: 345

Hi Steve

I was suprised to be heard from down here @ Bracklesham Bay. At times sigs increased to s8 but deep qsb & adjacent qro stations did not help matters. I look forward to another net in the future.

73s to all

Dave G0BVV

--- On Sat, 22/11/08, Steve Drury <g6alu@...> wrote:
From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Re: MKARS80 net?
To: mkars80@...
Date: Saturday, 22 November, 2008, 3:38 PM

It worked!

I logged the following stations on the NET this afternoon:

Alan GB2BP (2E0GLD) Bletchley Park Milton Keynes

Dave G0BVV South Coast (Bracklesham Bay?)

Ted G4OZG Kings Lynn

Calvin M1EPM Milton Keynes

Jack G3NEH Milton Keynes (40ft long wire)

And me Steve G6ALU Milton Keynes

We will perhaps try a net again in the future but a bit earlier in the day,

unfortunately European stations caused QRM towards the end of the net.

Thanks to all who took part and those listeners.

Steve G6ALU

----- Original Message -----

From: "Steve Drury" <g6alu@tiscali. co.uk>

To: <mkars80@yahoogroups .co.uk>

Sent: Tuesday, November 18, 2008 9:26 AM

Subject: Re: [mkars80] Re: MKARS80 net?

> Morning John,

>

> I will be there, I will put a message out on the MKARS club group.

>

> Steve G6ALU

>

> ----- Original Message -----

> From: "John" <John.Housego1@ tiscali.co. uk>

> To: <mkars80@yahoogroups .co.uk>

> Sent: Monday, November 17, 2008 12:50 PM

> Subject: [mkars80] Re: MKARS80 net?

>

>

>> Oooops, well spotted Steve, dont want to upset the data chaps so lets

>> try 3.700 for the MKARS net next Saturday 22nd November 08 at 1500hrs

>> UK local time.

>>

>> 73 John (M0TIF)

>>

>> --- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:

>>>

>>> I'm game for it John but that frequency is normally used by the data

>> men.

>>>

>>> Steve G6ALU

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> Internal Virus Database is out of date.

> Checked by AVG - http://www.avg. com

> Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008

> 9:12 AM

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> Yahoo! Groups Links

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Internal Virus Database is out of date.

Checked by AVG - http://www.avg. com

Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008

9:12 AM

[Non-text portions of this message have been removed]

346. Re: [mkars80] i have a problem !!

Yahoo group: mkars80
Date: 2008-11-23 15:54:42 UTC
From: Steve Drury
Topic: 344 Message: 346

Steve,
I think I have has this before, what may be happening is as follows:

Q1 has failed and gone leaky from Drain to Gate, this causes volts to flow from Drain to Gate, through R2 (when its not fully ant-clockwise) and through R6 into the TX12V rail. Fed from this supply rail is the audio mute transistor Q3, to confirm measure the voltage on Q1 gate terminal (1st from the left); when in receive this should be very low. Also check the base voltage on Q3; this should be low (<0.2V) on receive.

If this has happened send me your address to my mail direct g6alu@... and I will send you a new IRF510 and the 10k bias pot (R2), its no safe to re-use this preset resistor as it is likely to be burned out t the low end.

Regards,
Steve G6ALU

----- Original Message -----
From: "Dantomkia DTK steven gadsby" <manic86uk@...>
To: <mkars80@...>
Sent: Saturday, November 22, 2008 5:30 PM
Subject: [mkars80] i have a problem !!

> hello all first off may i say what a wonderful kit. it was a pleasure
> to build
>
> i hoped to be on the net but i created a problem with my kit and
> could do with some help please.
> all was working ok on the rx side of things and was just starting to
> set up the tx side when it happed i dropd my screwdriver on the pcb
> and shorted something out . the problem i now have is i can receive
> signals when r 2 is set to its minimum but as soon as i turn it even a
> fraction i lose the audio/receive audio output any ideas would be
> very much appreciated as aim not to hot on circuits
> many thanks
> steve G1OFW
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> Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.9/1804 - Release Date: 11/21/2008
6:24 PM

347. Re: [mkars80] Re: MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-23 15:58:28 UTC
From: Steve Drury
Topic: 337 Message: 347

Afternoon David,

An earlier time perhaps on a Sunday afternoon has been suggested, what do
you think?

Steve

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Saturday, November 22, 2008 8:16 PM
Subject: Re: [mkars80] Re: MKARS80 net?

> Hi Steve
>
> I was suprised to be heard from down here @ Bracklesham Bay. At times sigs
> increased to s8 but deep qsb & adjacent qro stations did not help matters.
> I look forward to another net in the future.
>
> 73s to all
>
> Dave G0BVV
>
> --- On Sat, 22/11/08, Steve Drury <g6alu@...> wrote:
> From: Steve Drury <g6alu@...>
> Subject: Re: [mkars80] Re: MKARS80 net?
> To: mkars80@...
> Date: Saturday, 22 November, 2008, 3:38 PM
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>
> It worked!
>
>
>
> I logged the following stations on the NET this afternoon:
>
>

>
> Alan GB2BP (2E0GLD) Bletchley Park Milton Keynes
>
> Dave G0BVV South Coast (Bracklesham Bay?)
>
> Ted G4OZG Kings Lynn
>
> Calvin M1EPM Milton Keynes
>
> Jack G3NEH Milton Keynes (40ft long wire)
>
> And me Steve G6ALU Milton Keynes
>
>
>
> We will perhaps try a net again in the future but a bit earlier in the
> day,
>
> unfortunately European stations caused QRM towards the end of the net.
>
>
>
> Thanks to all who took part and those listeners.
>
>
>
> Steve G6ALU
>
>
>
> ----- Original Message -----
>
> From: "Steve Drury" <g6alu@tiscali. co.uk>
>
> To: <mkars80@yahoogroups .co.uk>
>
> Sent: Tuesday, November 18, 2008 9:26 AM
>
> Subject: Re: [mkars80] Re: MKARS80 net?
>
>
>
>> Morning John,
>
>>
>
>> I will be there, I will put a message out on the MKARS club group.
>
>>
>

>> Steve G6ALU
>
>>
>
>> ----- Original Message -----
>
>> From: "John" <John.Housego1@ tiscali.co. uk>
>
>> To: <mkars80@yahoogroups .co.uk>
>
>> Sent: Monday, November 17, 2008 12:50 PM
>
>> Subject: [mkars80] Re: MKARS80 net?
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>
>>> Oooops, well spotted Steve, dont want to upset the data chaps so lets
>
>>> try 3.700 for the MKARS net next Saturday 22nd November 08 at 1500hrs
>
>>> UK local time.
>
>>>
>
>>> 73 John (M0TIF)
>
>>>
>
>>> --- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
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>
>>>> I'm game for it John but that frequency is normally used by the data
>
>>> men.
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>>>> Steve G6ALU
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> Internal Virus Database is out of date.
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> Checked by AVG - http://www.avg. com
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> Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.9/1804 - Release Date: 11/21/2008
6:24 PM

348. Re: [mkars80] Re: MKARS80 net?

Yahoo group: mkars80
Date: 2008-11-23 20:48:14 UTC
From: DAVID CLENCH
Topic: 337 Message: 348

Hi Steve

We are often out and about on Sundays but I will try make sure to be around around if there is an Mkars80 net on.

Dave.

--- On Sun, 23/11/08, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Re: MKARS80 net?
To: mkars80@...
Date: Sunday, 23 November, 2008, 3:58 PM

Afternoon David,

An earlier time perhaps on a Sunday afternoon has been suggested, what do
you think?

Steve

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Saturday, November 22, 2008 8:16 PM
Subject: Re: [mkars80] Re: MKARS80 net?

> Hi Steve
>
> I was suprised to be heard from down here @ Bracklesham Bay. At times sigs
> increased to s8 but deep qsb & adjacent qro stations did not help matters.
> I look forward to another net in the future.
>
> 73s to all
>
> Dave G0BVV
>
> --- On Sat, 22/11/08, Steve Drury <g6alu@tiscali. co.uk> wrote:
> From: Steve Drury <g6alu@tiscali. co.uk>
> Subject: Re: [mkars80] Re: MKARS80 net?
> To: mkars80@yahoogroups .co.uk
> Date: Saturday, 22 November, 2008, 3:38 PM
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>
> It worked!
>
>
>
> I logged the following stations on the NET this afternoon:
>
>
>
> Alan GB2BP (2E0GLD) Bletchley Park Milton Keynes
>
> Dave G0BVV South Coast (Bracklesham Bay?)
>
> Ted G4OZG Kings Lynn
>
> Calvin M1EPM Milton Keynes
>
> Jack G3NEH Milton Keynes (40ft long wire)
>
> And me Steve G6ALU Milton Keynes
>
>
>
> We will perhaps try a net again in the future but a bit earlier in the
> day,
>
> unfortunately European stations caused QRM towards the end of the net.
>
>
>
> Thanks to all who took part and those listeners.
>
>
>
> Steve G6ALU
>
>
>
> ----- Original Message -----
>
> From: "Steve Drury" <g6alu@tiscali. co.uk>
>
> To: <mkars80@yahoogroup s .co.uk>
>
> Sent: Tuesday, November 18, 2008 9:26 AM

>
> Subject: Re: [mkars80] Re: MKARS80 net?
>
>
>
>> Morning John,
>
>>
>
>> I will be there, I will put a message out on the MKARS club group.
>
>>
>
>> Steve G6ALU
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>>
>
>> ----- Original Message -----
>
>> From: "John" <John.Housego1@ tiscali.co. uk>
>
>> To: <mkars80@yahoogroup s .co.uk>
>
>> Sent: Monday, November 17, 2008 12:50 PM
>
>> Subject: [mkars80] Re: MKARS80 net?
>
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>
>>> Oooops, well spotted Steve, dont want to upset the data chaps so lets
>
>>> try 3.700 for the MKARS net next Saturday 22nd November 08 at 1500hrs
>
>>> UK local time.
>
>>>
>
>>> 73 John (M0TIF)
>
>>>
>
>>> --- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
>
>>>>
>
>>>> I'm game for it John but that frequency is normally used by the data
>
>>> men.

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>>>> Steve G6ALU
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>> Checked by AVG - http://www.avg. com
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>> Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date:
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> Internal Virus Database is out of date.
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> Checked by AVG - http://www.avg. com
>
> Version: 8.0.175 / Virus Database: 270.9.2/1785 - Release Date: 11/13/2008
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No virus found in this incoming message.
Checked by AVG - http://www.avg. com
Version: 8.0.175 / Virus Database: 270.9.9/1804 - Release Date: 11/21/2008
6:24 PM

[Non-text portions of this message have been removed]

349. Re: i have a problem !!

Yahoo group: mkars80
Date: 2008-11-23 23:51:41 UTC
From: Dantomkia DTK steven gadsby
Topic: 344 Message: 349

hi steve thanks for the advice i will check it out in the next few
days and let you know how i get on
thanks steve g1ofw

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Steve,
> I think I have has this before, what may be happening is as follows:
>
> Q1 has failed and gone leaky from Drain to Gate, this causes volts
to flow
> from Drain to Gate, through R2 (when its not fully ant-clockwise) and
> through R6 into the TX12V rail. Fed from this supply rail is the
audio mute
> transistor Q3, to confirm measure the voltage on Q1 gate terminal
(1st from
> the left); when in receive this should be very low. Also check the base
> voltage on Q3; this should be low (<0.2V) on receive.
>
> If this has happened send me your address to my mail direct
> g6alu@... and I will send you a new IRF510 and the 10k bias pot
> (R2), its no safe to re-use this preset resistor as it is likely to be
> burned out t the low end.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Dantomkia DTK steven gadsby" <manic86uk@...>
> To: <mkars80@...>
> Sent: Saturday, November 22, 2008 5:30 PM
> Subject: [mkars80] i have a problem !!
>
>
> > hello all first off may i say what a wonderful kit. it was a pleasure
> > to build
> >
> > i hoped to be on the net but i created a problem with my kit and
> > could do with some help please.
> > all was working ok on the rx side of things and was just starting to
> > set up the tx side when it happed i dropd my screwdriver on the pcb
> > and shorted something out . the problem i now have is i can receive
> > signals when r 2 is set to its minimum but as soon as i turn it even a
> > fraction i lose the audio/receive audio output any ideas would be
> > very much appreciated as aim not to hot on circuits

> > many thanks
> > steve G1OFW
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.175 / Virus Database: 270.9.9/1804 - Release Date:
11/21/2008
> 6:24 PM
>

350. i have a problem !!

Yahoo group: mkars80
Date: 2008-11-25 21:18:07 UTC
From: Dantomkia DTK steven gadsby
Topic: 344 Message: 350

hi steve thanks for your reply about my receiver problem i have tested
the voltages you pointed out and they are on q1 gate the voltage with
r2 fully anti clockwise is 4.8 volts and when you tun r2 a fraction
the voltage jumps to 9.5 volts
the voltage on q3 base is 0.2volts on receive i guess that q1 has
indeed gone leaky and r2 has burnt out if you could send replacements
and let me know the cost i would be most grateful
many thanks
steve
g1ofw

351. Re: [mkars80] i have a problem !!

Yahoo group: mkars80
Date: 2008-11-25 21:50:30 UTC
From: Steve Drury
Topic: 344 Message: 351

Replacement parts in the post Steve.

Steve G6ALU

----- Original Message -----
From: "Dantomkia DTK steven gadsby" <manic86uk@...>
To: <mkars80@...>
Sent: Tuesday, November 25, 2008 9:18 PM
Subject: [mkars80] i have a problem !!

> hi steve thanks for your reply about my receiver problem i have tested
> the voltages you pointed out and they are on q1 gate the voltage with
> r2 fully anti clockwise is 4.8 volts and when you tun r2 a fraction
> the voltage jumps to 9.5 volts
> the voltage on q3 base is 0.2volts on receive i guess that q1 has
> indeed gone leaky and r2 has burnt out if you could send replacements
> and let me know the cost i would be most grateful
> many thanks
> steve
> g1ofw
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.10/1811 - Release Date: 11/25/2008
8:29 AM

352. Introduction. M1KTA

Yahoo group: mkars80
Date: 2008-11-26 09:43:51 UTC
From: dombaines
Topic: 352 Message: 352

Hi all,

Just joined the group.

Bought a kit at Leicester Rally and will start it at some point this Xmas. The reverse tuning is a bit odd.

QTH is c40 miles East of MKARS/Betchley Park, locator JO02bd in a little village called Stapleford.

Looking at it so far I can see an experiment with a slightly larger case using an air spaced variable and a reduction drive for tuning or might try the varicap mod with a 10 turn pot, add an intyernal speaker, power switch, add a battery holder for AA rechargable batteries, an L match ATU for /P use (I find the W3EDP antenna works well for 80m) and finally just have to paint it some luminous/gawdy colour scheme.

After spending last year in HB9 I discovered the benfit of using lock 'n' lock boxes for homebrew in cold & wet /P conditions so might investigate using one.

The blog we all seem to have these days (mine is http://m1kta-qrp.blogspot.com/2008/11/mkars-80m-tcvr.html) will contain details of the build.

72

Dom
M1KTA

353. Modifications

Yahoo group: mkars80
Date: 2008-11-29 17:00:06 UTC
From: bcjazz50
Topic: 353 Message: 353

Hi All, A great little kit, so thanks Steve.
Mod 1. Changing C59 and 60 from polyester to POLYSTYRENE
dramatically reduces the VFO drift.
Mod 2. By removing the Tuning capacitor and replacing it with a 10
turn 10K pot and 2 MVAM109 diodes in series makes tuning really
easy.Approx 100pf is needed to couple to the original Tuning
Capacitor point.A 1 meg resistor provides an earth connection, from
the junction of the top diode and the 100pF coupling capacitor.The
tuning voltage is fed via a 470K resistor from the 0.1uF capacitor
decoupled slider of a 10 turn pot. where the diodes are connected
togeter.
One end of the pot goes to the +8V stab . rail and the other end of
the pot is earthed. Get it the right way round means clockwise
rotation of the pot increases the 3.6 MHz frequency to 3.8 Mhz
Series Varicap diodes are connected together at their positive
connections, this is the 470K control voltage point and one neg. end
goes to earth, the old tuning cap earth connection, the other neg.
diode end going to the 1 Meg to earth Resistor and 100 pf point.
Good luck all
73
Brian G8DIU

354. Sequel to Mods Message353

Yahoo group: mkars80
Date: 2008-12-01 15:26:13 UTC
From: bcjazz50
Topic: 354 Message: 354

Hi
Some words for guidance re Messagage 353.
Polystyrene Capacitors have a colour coded end, being tubular, that denotes the outer foil. This should always be connected to the lowest RF potential, e.g OV or earth if possible or as near.
The top coupling capacitor, from the Varicap. comprises a Ceramic NPO 22pF in parallel with a polystyrene 82 pF capacitor. Low value NPO capacitors usually have a black panted top.
Series connected MVAM109 diodes are connected this way to prevent forward conduction, due to high circulating RF voltages, that can cause spurious responses and thus strange effects. MVAM109s are used in Medium Wave designs so series connection halves their effective Capacitance swing which is fine in the narrow band MKARS80 application.
I hope this of use/interest.
73
Brian G8DIU

355. Re: Sequel to Mods Message353

Yahoo group: mkars80
Date: 2008-12-05 08:25:11 UTC
From: Frank Jackson
Topic: 354 Message: 355

Hello Brian
as per your e-mail I have placed a modified circuit diagram including
your changes in the Files section

73
Frank
M0JSZ

--- In mkars80@yahoogroups.co.uk, "bcjazz50" <g8diu@...> wrote:
>
> Hi
> Some words for guidance re Messagage 353.
> Polystyrene Capacitors have a colour coded end, being tubular, that
> denotes the outer foil. This should always be connected to the lowest
> RF potential, e.g OV or earth if possible or as near.
> The top coupling capacitor, from the Varicap. comprises a Ceramic NPO
> 22pF in parallel with a polystyrene 82 pF capacitor. Low value NPO
> capacitors usually have a black panted top.
> Series connected MVAM109 diodes are connected this way to prevent
> forward conduction, due to high circulating RF voltages, that can
> cause spurious responses and thus strange effects. MVAM109s are used
> in Medium Wave designs so series connection halves their effective
> Capacitance swing which is fine in the narrow band MKARS80 application.
> I hope this of use/interest.
> 73
> Brian G8DIU
>

356. MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-05 20:39:22 UTC
From: Steve Drury
Topic: 356 Message: 356

Evening all..

Following the modifications posted by Brian G8DIU I thought I would check out his modification of replacing the 1nF polycarbonate capacitors with polystyrene types, these were kindly donated by Ray G4TZR.

Firstly I logged the drift from start-up to a stable operating frequency, this took about 30 minutes and drifted a total of 7kHz - mainly in the first few minutes after switch on.

I replaced the capacitors, adjusted the orange trimmer for correct coverage, re-assembled the radio and allowed it to rest un-powered for about 2 hours. Next step was to plot the drift over a 30 minute period from switch on... it didn't! At least the huff and puff held the radio around the centre of its range during this period. I then transmitted for several minutes into a dummy load and was pleased to find the huff and puff still held it on tune.

The test needs repeating once the radio has been switched off for a longer period but the results do look encouraging - this came as a surprise as I had tried polystyrene capacitors on the first prototype when they gave similar results to the specified polycarbonate types.

If this mod does provide a significant improvement (and it looks likely) it leaves me with a problem, 1nF polystyrene capacitors are around 1 UK pound each, this cost can't be absorbed in the kit price so I have two choices: Sell the kit as is and offer the capacitors as an up-grade or alternatively increase the cost of the kit.

I will provide an update when the radio has been run from cold and air tested.

Thanks to Brian and others who have experimented with VFO stability.

Steve G6ALU

[Non-text portions of this message have been removed]

357. Re: [mkars80] MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-06 09:16:52 UTC
From: John YAHOO
Topic: 356 Message: 357

If you can use surface mount then 18p from Farnell for 50V or 23p for 100V
1nF COG/NPO

http://uk.farnell.com/kemet/c0402c102j5gac-7867/capacitor-1nf-npo-50v-0402/dp/1535558

http://uk.farnell.com/kemet/c0402c102j1gac-7867/capacitor-1nf-npo-100v-0402/dp/1535563

John G3UGY

> Following the modifications posted by Brian G8DIU I thought I would check
> out his modification of replacing the 1nF polycarbonate capacitors with
> polystyrene types, these were kindly donated by Ray G4TZR.
>
> Firstly I logged the drift from start-up to a stable operating frequency,
> this took about 30 minutes and drifted a total of 7kHz - mainly in the
> first few minutes after switch on.
>
> I replaced the capacitors, adjusted the orange trimmer for correct
> coverage, re-assembled the radio and allowed it to rest un-powered for
> about 2 hours. Next step was to plot the drift over a 30 minute period
> from switch on... it didn't! At least the huff and puff held the radio
> around the centre of its range during this period. I then transmitted for
> several minutes into a dummy load and was pleased to find the huff and
> puff still held it on tune.
>
> The test needs repeating once the radio has been switched off for a longer
> period but the results do look encouraging - this came as a surprise as I
> had tried polystyrene capacitors on the first prototype when they gave
> similar results to the specified polycarbonate types.
>
> If this mod does provide a significant improvement (and it looks likely)
> it leaves me with a problem, 1nF polystyrene capacitors are around 1 UK
> pound each, this cost can't be absorbed in the kit price so I have two
> choices: Sell the kit as is and offer the capacitors as an up-grade or
> alternatively increase the cost of the kit.
>
> I will provide an update when the radio has been run from cold and air
> tested.
>
> Thanks to Brian and others who have experimented with VFO stability.
>
> Steve G6ALU

358. Re: MKARS80 VFO Stability - A significant improvement!!

Yahoo group: mkars80
Date: 2008-12-06 11:22:43 UTC
From: Ron
Topic: 356 Message: 358

Hello all,

After reading Brian's post I switched on my soldering iron and rushed off to my local electronics store to buy a few of the miracle capacitors. And... they work, indeed!! No more retuning, no more lost QSO's and this for only 5 Euro's and 10 minutes of work.
Thanks very much Brian (and Steve)!

73's Ron de pa0rcl

359. Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-06 14:22:51 UTC
From: John Housego
Topic: 356 Message: 359

Steve, found an old rather large 1nf poly in the junk box, temporary fitted it and has cured the problem here which is great. Will do a few tests with an oscillator to see if it copes with CW now, I sure hope so as that will be a real bonus :-)

I personally think adding a couple of GBP to the kit price is well worth it as its still absolutely excellent value for money.

Oh and many thanks to Brian for sharing this fix with us.

John (M0TIF)

360. RE: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-06 14:50:29 UTC
From: Ray Stringfellow
Topic: 356 Message: 360

Hi John,

I have 2 of the poly caps, that I have been giving to club members, put to one side for you. (They are just the right size)

I have modified my MKARS80 today and the increase in stability is quite marked. A 20min qso with Allan at GB2BP resulted in no drift even after long overs.

Ray

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of John Housego
Sent: 06 December 2008 14:23
To: mkars80@...
Subject: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Steve, found an old rather large 1nf poly in the junk box, temporary fitted it and has cured the problem here which is great. Will do a few tests with an oscillator to see if it copes with CW now, I sure hope so as that will be a real bonus :-)

I personally think adding a couple of GBP to the kit price is well worth it as its still absolutely excellent value for money.

Oh and many thanks to Brian for sharing this fix with us.

John (M0TIF)

[Non-text portions of this message have been removed]

361. Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-06 15:04:23 UTC
From: Steve Drury
Topic: 356 Message: 361

Looking at the temperature coefficient of polystyrene it looks as though
they aren't as good as ceramic:

BC components (1nF 50V) ? 30PPM / ?K
LCR polystyrene (1nF 250V) -110 +80PPM / ?C

Both components could exhibit positive or negative temperature
coefficients - I will get samples of each type and try them out.

Steve G6ALU

----- Original Message -----
From: "John Housego" <John.Housego1@...>
To: <mkars80@...>
Sent: Saturday, December 06, 2008 2:22 PM
Subject: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

> Steve, found an old rather large 1nf poly in the junk box, temporary
> fitted it and has cured the problem here which is great. Will do a few
> tests with an oscillator to see if it copes with CW now, I sure hope so
> as that will be a real bonus :-)
>
> I personally think adding a couple of GBP to the kit price is well worth
> it as its still absolutely excellent value for money.
>
> Oh and many thanks to Brian for sharing this fix with us.
>
> John (M0TIF)
>
> ------------------------------------
>
> Yahoo! Groups Links
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Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.11/1820 - Release Date: 11/29/2008
6:52 PM

362. Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-06 15:19:00 UTC
From: Ron
Topic: 356 Message: 362

Hello Steve,

I've replaced C59 and C60 of two of my MKARS80's today. After the modification they are rock stable. This mod is a distinct if not dramatic improvement and I believe the extra cost is well worth it.
My advice would be to increase the price of the kit as to account for the more expensive caps.
I've informed some of my fellow hams in this country about the subject mod. There will probaly be a rush om polystyrene caps next week, they are not that easy to get!

Thanks and 73,

Ron pa0rcl

363. Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-06 15:42:17 UTC
From: Steve Drury
Topic: 356 Message: 363

Thanks for the message Ron,

The problem originated from me trying to get the best value for money from components used, I'm afraid in this instance I may have gone too far! It is best practice to use polystyrene (or other low temp. coefficient) capacitors in the VFO but I had assessed the stability to be adequate with the low cost polycarbonate types without realising the improvement possible.

As I mentioned before I had used polyester types in the prototype for C59-C60 but I probably used standard ceramic types elsewhere so didn't realise the benefit.

A lesson for all of us!

Steve G6ALU

----- Original Message -----
From: "Ron" <pa0rcl@...>
To: <mkars80@...>
Sent: Saturday, December 06, 2008 3:19 PM
Subject: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

> Hello Steve,
>
> I've replaced C59 and C60 of two of my MKARS80's today. After the
> modification they are rock stable. This mod is a distinct if not
> dramatic improvement and I believe the extra cost is well worth it.
> My advice would be to increase the price of the kit as to account for
> the more expensive caps.
> I've informed some of my fellow hams in this country about the subject
> mod. There will probaly be a rush om polystyrene caps next week, they
> are not that easy to get!
>
> Thanks and 73,
>
> Ron pa0rcl
>
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> Yahoo! Groups Links
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Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.11/1820 - Release Date: 11/29/2008
6:52 PM

364. Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-06 15:58:55 UTC
From: g3oth
Topic: 356 Message: 364

Hello All
I joined this group earlier this week and Steve has since sent me a kit
which I started to assemble last night. I had soldered all the components from bag 1 to the PCB last night (including the Polyester caps for C59 and C60) before I read these messages but will no doubt substitute these for polystyrene or ceramic NPO later. I have previously built two BITX20 rigs both of which use Polystyrene caps in
the Colpitts VFO and I have not experienced any drift problems using them in spite of the fact that I don't employ a H & P stabilser.
I aim to assemble at least one bag an evening so I hope to have the MKARS80 up and running before Xmas.
I very much like the way you have packaged your kit Ron and I would be
interested to know where you sourced your cabinets and wonder if you would photograph and publish some pictures of the interior of your transceiver in the files section of the group sometime.
Thanks to all for your help de Charles G3OTH

--- In mkars80@..., "Ron" <pa0rcl@...> wrote:
>
> Hello Steve,
>
> I've replaced C59 and C60 of two of my MKARS80's today. After the
> modification they are rock stable. This mod is a distinct if not
> dramatic improvement and I believe the extra cost is well worth it.
> My advice would be to increase the price of the kit as to account for
> the more expensive caps.
> I've informed some of my fellow hams in this country about the subject
> mod. There will probaly be a rush om polystyrene caps next week, they
> are not that easy to get!
>
> Thanks and 73,
>
> Ron pa0rcl
>

365. Re:MKARS80 VFO Stability

Yahoo group: mkars80
Date: 2008-12-06 16:21:21 UTC
From: Ron
Topic: 356 Message: 365

> I very much like the way you have packaged your kit Ron and I would
> be
> interetd to know where you sourced your cabinets and wonder if you
> would photograph and publish some pictures of the interior of your
> transceiver in the files section of the group sometime.
> Thanks to all for your help de Charles G3OTH
>

Hello Charles,

I've scored the cabinets at their local importer here. The come from Italy, from a company called Cientsolution. Apparently they don't make these cabinets any longer, which is a pity because they are actually very good and the MKARS80 just fits in them. You may be able to still find them in the UK, the ref. nr. is TM55155, a so-called mini-case. You might just Google these terms.
The MKARS80 in the pictures I've posted earlier is my first prototype. It doesn't look al that nice inside but I'll post some more pictures next week, after I got my camera back from one of my children, hi.

Good luck building and 73

Ron de pa0rcl

366. Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-06 19:48:20 UTC
From: Ron
Topic: 356 Message: 366

No sweat, Steve, I mnyself had overlooked these caps and believed
that L5 was the main culpritt. I did not even realise that the green
caps were at the origin of the problem when I saw that the BitX20 I
built uses polystyrene caps in the VFO. I just failed to make the
link. Fortunately, other group members did. Indeed a lesson for all
of us!

73 Ron pa0rcl

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Thanks for the message Ron,
>
> The problem originated from me trying to get the best value for
money from
> components used, I'm afraid in this instance I may have gone too
far! It is
> best practice to use polystyrene (or other low temp. coefficient)
capacitors
> in the VFO but I had assessed the stability to be adequate with the
low cost
> polycarbonate types without realising the improvement possible.
>
> As I mentioned before I had used polyester types in the prototype
for
> C59-C60 but I probably used standard ceramic types elsewhere so
didn't
> realise the benefit.
>
> A lesson for all of us!
>
> Steve G6ALU
>

367. Can any one help?

Yahoo group: mkars80
Date: 2008-12-06 20:24:03 UTC
From: Steve Drury
Topic: 367 Message: 367

I've been asked for three services which I am unable to provide:
1.. To provide ready drilled cases - some constructors either don't have the required skills or facilities to cut / drill the apertures.
2.. To provide ready wound inductors - winding the coils is difficult for those with arthritis etc.
3.. To provide a fully built kit.
If there are group members who are prepared to provide any of these services please reply on the group, assistance would be based on the Elecraft model - the customer deals directly with the service provider not through me! Any costs should be agreed directly between both parties.

If any one wants to come forward I will put there details in a text file in the files section for easy reference.

Any takers?

Steve G6ALU

[Non-text portions of this message have been removed]

368. Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-07 12:45:39 UTC
From: Calvin Battersby
Topic: 356 Message: 368

Hi Steve,

I think to further the good name of the MKARS80 you should supply the parts
and increase the price of the kit.
I am sure with an explanation on the MKARS80 front page people will be more
than happy to pay the extra, it maybe good to sell the parts as well for
those who would like to upgrade but can not get the parts.
I reckon with your excellent sourcing skills you may find something cheaper
(no pressure :)

Calvin M1EPM

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Saturday, December 06, 2008 3:42 PM
Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

> Thanks for the message Ron,
>
> The problem originated from me trying to get the best value for money from
> components used, I'm afraid in this instance I may have gone too far! It
> is
> best practice to use polystyrene (or other low temp. coefficient)
> capacitors
> in the VFO but I had assessed the stability to be adequate with the low
> cost
> polycarbonate types without realising the improvement possible.
>
> As I mentioned before I had used polyester types in the prototype for
> C59-C60 but I probably used standard ceramic types elsewhere so didn't
> realise the benefit.
>
> A lesson for all of us!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Ron" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Saturday, December 06, 2008 3:19 PM
> Subject: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?
>
>
>> Hello Steve,
>>

>> I've replaced C59 and C60 of two of my MKARS80's today. After the
>> modification they are rock stable. This mod is a distinct if not
>> dramatic improvement and I believe the extra cost is well worth it.
>> My advice would be to increase the price of the kit as to account for
>> the more expensive caps.
>> I've informed some of my fellow hams in this country about the subject
>> mod. There will probaly be a rush om polystyrene caps next week, they
>> are not that easy to get!
>>
>> Thanks and 73,
>>
>> Ron pa0rcl
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> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com
> Version: 8.0.175 / Virus Database: 270.9.11/1820 - Release Date:
> 11/29/2008
> 6:52 PM
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.14/1832 - Release Date: 05/12/2008
09:57

369. Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-10 20:38:49 UTC
From: Steve Drury
Topic: 356 Message: 369

VFO Stability - an update

I received my component order which included 2 types of 1nF capacitor - NP0 ceramic and polystyrene.

Both types of capacitor have been compared directly against each other, polystyrene types were fitted to my original prototype and the ceramic capacitors fitted to a new radio just finished. I allowed both radios to adjust to the ambient temperature then applied power simultaneously, reset the frequency to 3.7000 MHz and observed the drift:

New radio fitted with ceramic 1nF NP0 types in positions C59-60
Throughout the warm up period (half an hour) the frequency didn't drift, the huff and puff indicator remained in the centre of its range. After this time I injected a tone in to the microphone socket sufficient for 4W output power, the radio was left transmitting continuously for 10 minutes after which the huff and puff had come near the end of its range (bar to right).

Old prototype fitted with polystyrene capacitors
After half an hour from switch on the huff and puff indicator was near the right hand side showing all the huff and puff range had been used, the VFO though was still on the correct frequency. After the warm up period I reset the tuning bringing the huff and puff indicator to the centre and injected a signal as with the other radio. After transmitting continuously for 10 minutes the indicator had moved one bar to the right, I left it transmitting for another 10 minutes after which time the indicator was at the left hand end; shortly afterwards the huff and puff lost lock.

Conclusion
Both types of capacitor improved the VFO performance considerably but had different characteristics, the ceramics giving little change during warm up but some drift during transmit and the polystyrene drifting during warm up but becoming more stable with an increase in temperature. This suggests that the polystyrene capacitors were compensating for changes in other components.

Both types should give a good performance in normal use I'm most likely to use the ceramics as they are much cheaper and fit the PCB properly.

I'm now watching pictures transmitted by ONKUA using the DRM mode.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Saturday, December 06, 2008 3:42 PM

Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

> Thanks for the message Ron,
>
> The problem originated from me trying to get the best value for money from
> components used, I'm afraid in this instance I may have gone too far! It
> is
> best practice to use polystyrene (or other low temp. coefficient)
> capacitors
> in the VFO but I had assessed the stability to be adequate with the low
> cost
> polycarbonate types without realising the improvement possible.
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> As I mentioned before I had used polyester types in the prototype for
> C59-C60 but I probably used standard ceramic types elsewhere so didn't
> realise the benefit.
>
> A lesson for all of us!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Ron" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Saturday, December 06, 2008 3:19 PM
> Subject: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?
>
>
>> Hello Steve,
>>
>> I've replaced C59 and C60 of two of my MKARS80's today. After the
>> modification they are rock stable. This mod is a distinct if not
>> dramatic improvement and I believe the extra cost is well worth it.
>> My advice would be to increase the price of the kit as to account for
>> the more expensive caps.
>> I've informed some of my fellow hams in this country about the subject
>> mod. There will probaly be a rush om polystyrene caps next week, they
>> are not that easy to get!
>>
>> Thanks and 73,
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>> Ron pa0rcl
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>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com
> Version: 8.0.175 / Virus Database: 270.9.11/1820 - Release Date:
> 11/29/2008
> 6:52 PM
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> Yahoo! Groups Links
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Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.175 / Virus Database: 270.9.11/1820 - Release Date: 11/29/2008
6:52 PM

370. Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-10 21:18:47 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 356 Message: 370

Tried with a 500pf ceramic in parellel with a 500pf Poly?
(OK, a 470 and a 510 or similar)

Steve Drury wrote:
> VFO Stability - an update
>
> I received my component order which included 2 types of 1nF capacitor - NP0
> ceramic and polystyrene.
>
> Both types of capacitor have been compared directly against each other,

371. Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-10 21:22:05 UTC
From: Steve Drury
Topic: 356 Message: 371

I want to keep it simple Nigel, what I didn't say is that the effect is likely to be different for everybody due to the temperature coefficients of components used, I will leave it up to the huff and puff to keep things under control.

Steve G6ALU

----- Original Message -----
From: "Nigel Gunn G8IFF/W8IFF" <nigel@...>
To: <mkars80@...>
Sent: Wednesday, December 10, 2008 9:18 PM
Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

> Tried with a 500pf ceramic in parellel with a 500pf Poly?
> (OK, a 470 and a 510 or similar)
>
>
>
> Steve Drury wrote:
>> VFO Stability - an update
>>
>> I received my component order which included 2 types of 1nF capacitor -
>> NP0
>> ceramic and polystyrene.
>>
>> Both types of capacitor have been compared directly against each other,
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.16/1841 - Release Date: 12/10/2008 9:30 AM

372. MKARS80 PCB assembly successfully completed

Yahoo group: mkars80
Date: 2008-12-11 19:43:36 UTC
From: g3oth
Topic: 372 Message: 372

Hi All
Last night I successfully completed assembly of the PCB of the kit which I received from Steve last Friday. The kit supplied was complete in every detail and the documentation excellent, unambiguous and free from errors. Thus assembly went very smoothly and I have been able to complete and bench test it after only six evening's work.
So far I am impressed with the performance of the receiver, particularly the readout and stability of the H&P stabilised VFO, although being new to this facility I need conduct more practice with my tuning technique. The VFO was easily setup with more than 50KHz to spare at the band edges of 3500 and 3800 KHz and surprisingly even without a large knob or slomo drive the Polyvaricon coarse control alone with care can tune in SSB without resort to the fine tune pot.
The LSB filter sounds nice and appears to be working as it should.
Before I permanently soldered in the BFO and Filter Xtals I took the opportunity to test all of them using the BFO circuit of the MKARS as a "test jig" a la G3UUR's technique as mentioned on page 3.19 of Experimental Methods in RF Design by Wes Hayword et al.
For those of you interested the results I obtained from the 5 Xtals supplied in Steve's kit measured with and without a series capacitor of 40pF were as follows.

Xtal 1

Fosc = 10,000.146 KHz with 40pF series C, Fosc = 9,998.280 KHz no C.

Xtal 2

Fosc = 10,000.173 KHz with 40pF series C, Fosc = 9,998.293 KHz no C.

Xtal 3

Fosc = 10,000.191 KHz with 40pF series C, Fosc = 9,998.327 KHz no C.

Xtal 4

Fosc = 10,000.174 KHz with 40pF series C, Fosc = 9,998.298 KHz no C.

Xtal 5

Fosc = 10,000.128 KHz with 40pf series C, Fosc = 9,998.279 KHz no C.

It can be seen from the above that Xtal 3 has highest Fosc and for this reason it was chosen as the BFO carrier Xtal.

All four remaining Xtals were within 46 Hz and 19 Hz of one another for the two conditions of test, and these were used to construct the LSB filter.

Using a value for delta F of 1866 HZ obtained from Xtal 1,

373. Re: MKARS80 PCB assembly successfully completed

Yahoo group: mkars80
Date: 2008-12-11 19:56:32 UTC
From: g3oth
Topic: 372 Message: 373

CONTINUED from last message, sorry about the glitch!

Using a value for delta F of 1866 HZ obtained from Xtal 1, the
motional capacitance Cm from G3UUR's equations turns out to be around
15fF and Lm around 0.017 H.

These results would therefore indicate that the Xtals provided in the
kit are ideal for purpose.

Well done Steve and many thanks.

Charles G3OTH

-- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> Hi All
> Last night I successfully completed assembly of the PCB of the kit
> which I received from Steve last Friday. The kit supplied was
> complete in every detail and the documentation excellent,
unambiguous
> and free from errors. Thus assembly went very smoothly and I have
> been able to complete and bench test it after only six evening's
work.
> So far I am impressed with the performance of the receiver,
> particularly the readout and stability of the H&P stabilised VFO,
> although being new to this facility I need conduct more practice
with
> my tuning technique. The VFO was easily setup with more than 50KHz
to
> spare at the band edges of 3500 and 3800 KHz and surprisingly even
> without a large knob or slomo drive the Polyvaricon coarse control
> alone with care can tune in SSB without resort to the fine tune pot.
> The LSB filter sounds nice and appears to be working as it should.
> Before I permanently soldered in the BFO and Filter Xtals I took
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> opportunity to test all of them using the BFO circuit of the MKARS
as
> a "test jig" a la G3UUR's technique as mentioned on page 3.19 of
> Experimental Methods in RF Design by Wes Hayword et al.
> For those of you interested the results I obtained from the 5 Xtals
> supplied in Steve's kit measured with and without a series
capacitor
> of 40pF were as follows.
>
> Xtal 1
>

> Fosc = 10,000.146 KHz with 40pF series C, Fosc = 9,998.280 KHz no C.
>
> Xtal 2
>
> Fosc = 10,000.173 KHz with 40pF series C, Fosc = 9,998.293 KHz no C.
>
> Xtal 3
>
> Fosc = 10,000.191 KHz with 40pF series C, Fosc = 9,998.327 KHz no C.
>
> Xtal 4
>
> Fosc = 10,000.174 KHz with 40pF series C, Fosc = 9,998.298 KHz no C.
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> Xtal 5
>
> Fosc = 10,000.128 KHz with 40pf series C, Fosc = 9,998.279 KHz no C.
>
> It can be seen from the above that Xtal 3 has highest Fosc and for
> this reason it was chosen as the BFO carrier Xtal.
>
> All four remaining Xtals were within 46 Hz and 19 Hz of one another
> for the two conditions of test, and these were used to construct
the
> LSB filter.
>
> Using a value for delta F of 1866 HZ obtained from Xtal 1,
>

374. Re: [mkars80] Re: MKARS80 PCB assembly successfully completed

Yahoo group: mkars80
Date: 2008-12-11 21:44:07 UTC
From: Steve Drury
Topic: 372 Message: 374

I'm glad you are happy with the kit Charles, I must confess that there
wasn't as much work put into the filter design as you have made checking it!

VFO stability can be improved considerably by replacing the feedback
capacitors C59 - C60 with polystyrene or NP0 ceramic types, I will offer
this upgrade shortly.

Have fun,

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Thursday, December 11, 2008 7:56 PM
Subject: [mkars80] Re: MKARS80 PCB assembly successfully completed

> CONTINUED from last message, sorry about the glitch!
>
> Using a value for delta F of 1866 HZ obtained from Xtal 1, the
> motional capacitance Cm from G3UUR's equations turns out to be around
> 15fF and Lm around 0.017 H.
>
> These results would therefore indicate that the Xtals provided in the
> kit are ideal for purpose.
>
> Well done Steve and many thanks.
>
> Charles G3OTH
>
> -- In mkars80@..., "g3oth" <g3oth@...> wrote:
>>
>> Hi All
>> Last night I successfully completed assembly of the PCB of the kit
>> which I received from Steve last Friday. The kit supplied was
>> complete in every detail and the documentation excellent,
> unambiguous
>> and free from errors. Thus assembly went very smoothly and I have
>> been able to complete and bench test it after only six evening's
> work.
>> So far I am impressed with the performance of the receiver,
>> particularly the readout and stability of the H&P stabilised VFO,
>> although being new to this facility I need conduct more practice
> with
>> my tuning technique. The VFO was easily setup with more than 50KHz
> to

>> spare at the band edges of 3500 and 3800 KHz and surprisingly even
>> without a large knob or slomo drive the Polyvaricon coarse control
>> alone with care can tune in SSB without resort to the fine tune pot.
>> The LSB filter sounds nice and appears to be working as it should.
>> Before I permanently soldered in the BFO and Filter Xtals I took
> the
>> opportunity to test all of them using the BFO circuit of the MKARS
> as
>> a "test jig" a la G3UUR's technique as mentioned on page 3.19 of
>> Experimental Methods in RF Design by Wes Hayword et al.
>> For those of you interested the results I obtained from the 5 Xtals
>> supplied in Steve's kit measured with and without a series
> capacitor
>> of 40pF were as follows.
>>
>> Xtal 1
>>
>> Fosc = 10,000.146 KHz with 40pF series C, Fosc = 9,998.280 KHz no C.
>>
>> Xtal 2
>>
>> Fosc = 10,000.173 KHz with 40pF series C, Fosc = 9,998.293 KHz no C.
>>
>> Xtal 3
>>
>> Fosc = 10,000.191 KHz with 40pF series C, Fosc = 9,998.327 KHz no C.
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>> Xtal 4
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>> Fosc = 10,000.174 KHz with 40pF series C, Fosc = 9,998.298 KHz no C.
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>> Xtal 5
>>
>> Fosc = 10,000.128 KHz with 40pf series C, Fosc = 9,998.279 KHz no C.
>>
>> It can be seen from the above that Xtal 3 has highest Fosc and for
>> this reason it was chosen as the BFO carrier Xtal.
>>
>> All four remaining Xtals were within 46 Hz and 19 Hz of one another
>> for the two conditions of test, and these were used to construct
> the
>> LSB filter.
>>
>> Using a value for delta F of 1866 HZ obtained from Xtal 1,
>>
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
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>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.16/1843 - Release Date: 12/11/2008
8:36 AM

375. MKARS80 net

Yahoo group: mkars80
Date: 2008-12-11 22:24:02 UTC
From: Steve Drury
Topic: 375 Message: 375

Shall we try a net this Sunday?

We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!

Steve G6ALU

[Non-text portions of this message have been removed]

376. Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-11 22:31:40 UTC
From: Steve Drury
Topic: 356 Message: 376

Further to the last update:

I arrived home to a cold shack this evening and turned on both transceivers at the same time, the one fitted with ceramic capacitors again didn't drift from the initial setting so I've decided this is the way to go.

As the capacitors are low cost I will supply them free of charge but I leave it to you to pay the postage: If UK owners would like to send me a stamped addressed envelope I will send two capacitors wrapped in a mod sheet, this should be less than the 5mm thickness required for a normal stamp.

I will advise the cost to overseas owners once I have weighed and costed an envelope. Capacitors should be with me by the weekend.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Wednesday, December 10, 2008 8:38 PM
Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

> VFO Stability - an update
>
> I received my component order which included 2 types of 1nF capacitor -
> NP0
> ceramic and polystyrene.
>
> Both types of capacitor have been compared directly against each other,
> polystyrene types were fitted to my original prototype and the ceramic
> capacitors fitted to a new radio just finished. I allowed both radios to
> adjust to the ambient temperature then applied power simultaneously, reset
> the frequency to 3.7000 MHz and observed the drift:
>
> *New radio fitted with ceramic 1nF NP0 types in positions C59-60*
> Throughout the warm up period (half an hour) the frequency didn't drift,
> the
> huff and puff indicator remained in the centre of its range. After this
> time
> I injected a tone in to the microphone socket sufficient for 4W output
> power, the radio was left transmitting continuously for 10 minutes after
> which the huff and puff had come near the end of its range (bar to right).
>
> *Old prototype fitted with polystyrene capacitors*
> After half an hour from switch on the huff and puff indicator was near the
> right hand side showing all the huff and puff range had been used, the VFO

> though was still on the correct frequency. After the warm up period I
> reset
> the tuning bringing the huff and puff indicator to the centre and injected
> a
> signal as with the other radio. After transmitting continuously for 10
> minutes the indicator had moved one bar to the right, I left it
> transmitting
> for another 10 minutes after which time the indicator was at the left hand
> end; shortly afterwards the huff and puff lost lock.
>
> *Conclusion*
> Both types of capacitor improved the VFO performance considerably but had
> different characteristics, the ceramics giving little change during warm
> up
> but some drift during transmit and the polystyrene drifting during warm up
> but becoming more stable with an increase in temperature. This suggests
> that
> the polystyrene capacitors were compensating for changes in other
> components.
>
> Both types should give a good performance in normal use I'm most likely to
> use the ceramics as they are much cheaper and fit the PCB properly.
>
> I'm now watching pictures transmitted by ONKUA using the DRM mode.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Saturday, December 06, 2008 3:42 PM
> Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant
> improvement?
>
>
>> Thanks for the message Ron,
>>
>> The problem originated from me trying to get the best value for money
>> from
>> components used, I'm afraid in this instance I may have gone too far! It
>> is
>> best practice to use polystyrene (or other low temp. coefficient)
>> capacitors
>> in the VFO but I had assessed the stability to be adequate with the low
>> cost
>> polycarbonate types without realising the improvement possible.
>>
>> As I mentioned before I had used polyester types in the prototype for
>> C59-C60 but I probably used standard ceramic types elsewhere so didn't
>> realise the benefit.

>>
>> A lesson for all of us!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Ron" <pa0rcl@...>
>> To: <mkars80@...>
>> Sent: Saturday, December 06, 2008 3:19 PM
>> Subject: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?
>>
>>
>>> Hello Steve,
>>>
>>> I've replaced C59 and C60 of two of my MKARS80's today. After the
>>> modification they are rock stable. This mod is a distinct if not
>>> dramatic improvement and I believe the extra cost is well worth it.
>>> My advice would be to increase the price of the kit as to account for
>>> the more expensive caps.
>>> I've informed some of my fellow hams in this country about the subject
>>> mod. There will probaly be a rush om polystyrene caps next week, they
>>> are not that easy to get!
>>>
>>> Thanks and 73,
>>>
>>> Ron pa0rcl
>>>
>>>
>>> ------------------------------------
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>>> Yahoo! Groups Links
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>>
>> Internal Virus Database is out of date.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.175 / Virus Database: 270.9.11/1820 - Release Date:
>> 11/29/2008
>> 6:52 PM
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>> Yahoo! Groups Links

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>
> Internal Virus Database is out of date.
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.16/1841 - Release Date: 12/10/2008
9:30 AM

377. Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-11 22:37:29 UTC
From: Steve Drury
Topic: 356 Message: 377

Should have given our address!

Radio-Kits
25 Crosslands,
Stantonbury,
Milton Keynes,
Bucks.
MK14 6AY
England

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Thursday, December 11, 2008 10:31 PM
Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?

> Further to the last update:
>
> I arrived home to a cold shack this evening and turned on both
> transceivers
> at the same time, the one fitted with ceramic capacitors again didn't
> drift
> from the initial setting so I've decided this is the way to go.
>
> As the capacitors are low cost I will supply them free of charge but I
> leave
> it to you to pay the postage: If UK owners would like to send me a stamped
> addressed envelope I will send two capacitors wrapped in a mod sheet, this
> should be less than the 5mm thickness required for a normal stamp.
>
> I will advise the cost to overseas owners once I have weighed and costed
> an
> envelope. Capacitors should be with me by the weekend.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Wednesday, December 10, 2008 8:38 PM
> Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant
> improvement?
>
>
>> VFO Stability - an update
>>

>> I received my component order which included 2 types of 1nF capacitor -
>> NP0
>> ceramic and polystyrene.
>>
>> Both types of capacitor have been compared directly against each other,
>> polystyrene types were fitted to my original prototype and the ceramic
>> capacitors fitted to a new radio just finished. I allowed both radios to
>> adjust to the ambient temperature then applied power simultaneously,
>> reset
>> the frequency to 3.7000 MHz and observed the drift:
>>
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>> Throughout the warm up period (half an hour) the frequency didn't drift,
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>> huff and puff indicator remained in the centre of its range. After this
>> time
>> I injected a tone in to the microphone socket sufficient for 4W output
>> power, the radio was left transmitting continuously for 10 minutes after
>> which the huff and puff had come near the end of its range (bar to
>> right).
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>> the
>> right hand side showing all the huff and puff range had been used, the
>> VFO
>> though was still on the correct frequency. After the warm up period I
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>> the tuning bringing the huff and puff indicator to the centre and
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>> signal as with the other radio. After transmitting continuously for 10
>> minutes the indicator had moved one bar to the right, I left it
>> transmitting
>> for another 10 minutes after which time the indicator was at the left
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>> end; shortly afterwards the huff and puff lost lock.
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>> *Conclusion*
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>> different characteristics, the ceramics giving little change during warm
>> up
>> but some drift during transmit and the polystyrene drifting during warm
>> up
>> but becoming more stable with an increase in temperature. This suggests
>> that
>> the polystyrene capacitors were compensating for changes in other
>> components.
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>> Both types should give a good performance in normal use I'm most likely

>> to
>> use the ceramics as they are much cheaper and fit the PCB properly.
>>
>> I'm now watching pictures transmitted by ONKUA using the DRM mode.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Steve Drury" <g6alu@...>
>> To: <mkars80@...>
>> Sent: Saturday, December 06, 2008 3:42 PM
>> Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant
>> improvement?
>>
>>
>>> Thanks for the message Ron,
>>>
>>> The problem originated from me trying to get the best value for money
>>> from
>>> components used, I'm afraid in this instance I may have gone too far! It
>>> is
>>> best practice to use polystyrene (or other low temp. coefficient)
>>> capacitors
>>> in the VFO but I had assessed the stability to be adequate with the low
>>> cost
>>> polycarbonate types without realising the improvement possible.
>>>
>>> As I mentioned before I had used polyester types in the prototype for
>>> C59-C60 but I probably used standard ceramic types elsewhere so didn't
>>> realise the benefit.
>>>
>>> A lesson for all of us!
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>>> Steve G6ALU
>>>
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>>> From: "Ron" <pa0rcl@...>
>>> To: <mkars80@...>
>>> Sent: Saturday, December 06, 2008 3:19 PM
>>> Subject: [mkars80] Re:MKARS80 VFO Stability - A significant improvement?
>>>
>>>
>>>> Hello Steve,
>>>>
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>>>> modification they are rock stable. This mod is a distinct if not
>>>> dramatic improvement and I believe the extra cost is well worth it.
>>>> My advice would be to increase the price of the kit as to account for
>>>> the more expensive caps.
>>>> I've informed some of my fellow hams in this country about the subject

>>>> mod. There will probaly be a rush om polystyrene caps next week, they
>>>> are not that easy to get!
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>>>> Thanks and 73,
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>>>> Ron pa0rcl
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>>>> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.16/1843 - Release Date: 12/11/2008
8:36 AM

378. Re: [mkars80] MKARS80 net

Yahoo group: mkars80
Date: 2008-12-11 23:06:40 UTC
From: DAVID CLENCH
Topic: 375 Message: 378

Hi Steve
I for one will be there on Sunday. See you there.

73 Dave G0BVV

--- On Thu, 11/12/08, Steve Drury <g6alu@...> wrote:
From: Steve Drury <g6alu@...>
Subject: [mkars80] MKARS80 net
To: mkars80@yahoogroups.co.uk
Date: Thursday, 11 December, 2008, 10:24 PM

Shall we try a net this Sunday?

We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!

Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

379. Re: MKARS80 PCB assembly successfully completed

Yahoo group: mkars80
Date: 2008-12-11 23:07:13 UTC
From: g3oth
Topic: 372 Message: 379

FB Steve,
I have spent a couple of hours tonight tuning around 80 meters with the MKARS80 attached to the classic piece of wet string draped around the picture rail (actually an uncoiled roll of hookup wire about 30 feet long 6 feet high extending from the kitchen to the living room) and have copied many SSB and CW signals from Europe with excellent results and stability in spite of the fact that the PCB is open to the elements and lying on the table without even the advantage of tuning or gain knobs.
I have just about mastered the art of tuning with the H&P now.
I had thought about eventually repackaging the kit and using either an air variable or varicap potentiometer tuning but that was before I experienced the surprise and pleasure of using the kit with the polyvaricon as is, so I doubt whether I ever will now.
I have some small 1200pF polystyrene caps here which I might try later as replacements for the C59 and C90 polyester types.
My priority now is to check out the transmitter with a heat sink into a dummy load and to get a decent 80 meter antenna erected to put this little gem through its paces.
One question for you. How easy would it be to use or reprogram the existing PIC to enable this circuit to be revamped for 160 meters. It seems to me that if one were to alter the IF and VFO constants randomly to get on Top Band then the clock frequency of the PIC would be altered, presumably resulting in an odd ball tuning step increment as well as a false readout. Your comments would be welcome on this subject.

73 de Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I'm glad you are happy with the kit Charles, I must confess that there
> wasn't as much work put into the filter design as you have made checking it!
>
> VFO stability can be improved considerably by replacing the feedback
> capacitors C59 - C60 with polystyrene or NP0 ceramic types, I will offer
> this upgrade shortly.
>
> Have fun,
>
> Steve G6ALU

>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Thursday, December 11, 2008 7:56 PM
> Subject: [mkars80] Re: MKARS80 PCB assembly successfully completed
>
>
> > CONTINUED from last message, sorry about the glitch!
> >
> > Using a value for delta F of 1866 HZ obtained from Xtal 1, the
> > motional capacitance Cm from G3UUR's equations turns out to be
around
> > 15fF and Lm around 0.017 H.
> >
> > These results would therefore indicate that the Xtals provided in
the
> > kit are ideal for purpose.
> >
> > Well done Steve and many thanks.
> >
> > Charles G3OTH
> >
> > -- In mkars80@..., "g3oth" <g3oth@> wrote:
> >>
> >> Hi All
> >> Last night I successfully completed assembly of the PCB of the
kit
> >> which I received from Steve last Friday. The kit supplied was
> >> complete in every detail and the documentation excellent,
> > unambiguous
> >> and free from errors. Thus assembly went very smoothly and I have
> >> been able to complete and bench test it after only six evening's
> > work.
> >> So far I am impressed with the performance of the receiver,
> >> particularly the readout and stability of the H&P stabilised VFO,
> >> although being new to this facility I need conduct more practice
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> >> my tuning technique. The VFO was easily setup with more than
50KHz
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> >> spare at the band edges of 3500 and 3800 KHz and surprisingly
even
> >> without a large knob or slomo drive the Polyvaricon coarse
control
> >> alone with care can tune in SSB without resort to the fine tune
pot.
> >> The LSB filter sounds nice and appears to be working as it
should.
> >> Before I permanently soldered in the BFO and Filter Xtals I took

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> >> opportunity to test all of them using the BFO circuit of the
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> > as
> >> a "test jig" a la G3UUR's technique as mentioned on page 3.19 of
> >> Experimental Methods in RF Design by Wes Hayword et al.
> >> For those of you interested the results I obtained from the 5
Xtals
> >> supplied in Steve's kit measured with and without a series
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> >> of 40pF were as follows.
> >>
> >> Xtal 1
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> >> Fosc = 10,000.146 KHz with 40pF series C, Fosc = 9,998.280 KHz
no C.
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> >>
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> >> It can be seen from the above that Xtal 3 has highest Fosc and
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> >> this reason it was chosen as the BFO carrier Xtal.
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another
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> > the
> >> LSB filter.
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> >> Using a value for delta F of 1866 HZ obtained from Xtal 1,
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> >

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> >
> > Yahoo! Groups Links
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> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.16/1843 - Release Date:
12/11/2008
> 8:36 AM
>

380. Re:MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-11 23:27:25 UTC
From: g3oth
Topic: 356 Message: 380

Thanks Steve, just read your message, I will take up your offer later.
Meanwhile for anyone interested I have been running the PCB on
receive from an eight AA cell Nicad pack all evening and it is still
going strong with only 9.9 volts indicated on the LCD screen now.
Quiescient current is about 96 mA at this level.
73 de Charles G3OTH

-- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Further to the last update:
>
> I arrived home to a cold shack this evening and turned on both
transceivers
> at the same time, the one fitted with ceramic capacitors again
didn't drift
> from the initial setting so I've decided this is the way to go.
>
> As the capacitors are low cost I will supply them free of charge
but I leave
> it to you to pay the postage: If UK owners would like to send me a
stamped
> addressed envelope I will send two capacitors wrapped in a mod
sheet, this
> should be less than the 5mm thickness required for a normal stamp.
>
> I will advise the cost to overseas owners once I have weighed and
costed an
> envelope. Capacitors should be with me by the weekend.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Wednesday, December 10, 2008 8:38 PM
> Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant
improvement?
>
>
> > VFO Stability - an update
> >
> > I received my component order which included 2 types of 1nF
capacitor -
> > NP0
> > ceramic and polystyrene.

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other,
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ceramic
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radios to
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simultaneously, reset
> > the frequency to 3.7000 MHz and observed the drift:
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> > Throughout the warm up period (half an hour) the frequency didn't
drift,
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> > huff and puff indicator remained in the centre of its range.
After this
> > time
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minutes after
> > which the huff and puff had come near the end of its range (bar
to right).
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> > right hand side showing all the huff and puff range had been
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> > though was still on the correct frequency. After the warm up
period I
> > reset
> > the tuning bringing the huff and puff indicator to the centre and
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> > signal as with the other radio. After transmitting continuously
for 10
> > minutes the indicator had moved one bar to the right, I left it
> > transmitting
> > for another 10 minutes after which time the indicator was at the
left hand
> > end; shortly afterwards the huff and puff lost lock.
> >
> > *Conclusion*
> > Both types of capacitor improved the VFO performance considerably
but had
> > different characteristics, the ceramics giving little change
during warm
> > up

> > but some drift during transmit and the polystyrene drifting
during warm up
> > but becoming more stable with an increase in temperature. This
suggests
> > that
> > the polystyrene capacitors were compensating for changes in other
> > components.
> >
> > Both types should give a good performance in normal use I'm most
likely to
> > use the ceramics as they are much cheaper and fit the PCB
properly.
> >
> > I'm now watching pictures transmitted by ONKUA using the DRM mode.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Steve Drury" <g6alu@...>
> > To: <mkars80@...>
> > Sent: Saturday, December 06, 2008 3:42 PM
> > Subject: Re: [mkars80] Re:MKARS80 VFO Stability - A significant
> > improvement?
> >
> >
> >> Thanks for the message Ron,
> >>
> >> The problem originated from me trying to get the best value for
money
> >> from
> >> components used, I'm afraid in this instance I may have gone too
far! It
> >> is
> >> best practice to use polystyrene (or other low temp. coefficient)
> >> capacitors
> >> in the VFO but I had assessed the stability to be adequate with
the low
> >> cost
> >> polycarbonate types without realising the improvement possible.
> >>
> >> As I mentioned before I had used polyester types in the
prototype for
> >> C59-C60 but I probably used standard ceramic types elsewhere so
didn't
> >> realise the benefit.
> >>
> >> A lesson for all of us!
> >>
> >> Steve G6ALU
> >>

> >> ----- Original Message -----
> >> From: "Ron" <pa0rcl@...>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Saturday, December 06, 2008 3:19 PM
> >> Subject: [mkars80] Re:MKARS80 VFO Stability - A significant
improvement?
> >>
> >>
> >>> Hello Steve,
> >>>
> >>> I've replaced C59 and C60 of two of my MKARS80's today. After
the
> >>> modification they are rock stable. This mod is a distinct if not
> >>> dramatic improvement and I believe the extra cost is well worth
it.
> >>> My advice would be to increase the price of the kit as to
account for
> >>> the more expensive caps.
> >>> I've informed some of my fellow hams in this country about the
subject
> >>> mod. There will probaly be a rush om polystyrene caps next
week, they
> >>> are not that easy to get!
> >>>
> >>> Thanks and 73,
> >>>
> >>> Ron pa0rcl
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
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> >>
> >>
> >>
> >> Internal Virus Database is out of date.
> >> Checked by AVG - http://www.avg.com
> >> Version: 8.0.175 / Virus Database: 270.9.11/1820 - Release Date:
> >> 11/29/2008
> >> 6:52 PM
> >>
> >>
> >> ------------------------------------

> >>
> >> Yahoo! Groups Links
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> >
> > Internal Virus Database is out of date.
> > Checked by AVG - http://www.avg.com
> > Version: 8.0.175 / Virus Database: 270.9.11/1820 - Release Date:
> > 11/29/2008
> > 6:52 PM
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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>
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>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.16/1841 - Release Date:
12/10/2008
> 9:30 AM
>

381. Re: [mkars80] Re: MKARS80 PCB assembly successfully completed

Yahoo group: mkars80
Date: 2008-12-12 08:07:01 UTC
From: g6alu@tiscali.co.uk
Topic: 372 Message: 381

Morning Charles,

Yes it would be possible to modify the PIC code, have you thought about an ideal IF frequency?

Steve G6ALU

>----Original Message----
>From: g3oth@...
>Date: 11/12/2008 23:07
>To: <mkars80@...>
>Subj: [mkars80] Re: MKARS80 PCB assembly successfully completed
>
>FB Steve,
>I have spent a couple of hours tonight tuning around 80 meters with
>the MKARS80 attached to the classic piece of wet string draped around
>the picture rail (actually an uncoiled roll of hookup wire about 30
>feet long 6 feet high extending from the kitchen to the living room)
>and have copied many SSB and CW signals from Europe with excellent
>results and stability in spite of the fact that the PCB is open to
>the elements and lying on the table without even the advantage of
>tuning or gain knobs.
>I have just about mastered the art of tuning with the H&P now.
>I had thought about eventually repackaging the kit and using either
>an air variable or varicap potentiometer tuning but that was before I
>experienced the surprise and pleasure of using the kit with the
>polyvaricon as is, so I doubt whether I ever will now.
>I have some small 1200pF polystyrene caps here which I might try
>later as replacements for the C59 and C90 polyester types.
>My priority now is to check out the transmitter with a heat sink into
>a dummy load and to get a decent 80 meter antenna erected to put this
>little gem through its paces.
>One question for you. How easy would it be to use or reprogram the
>existing PIC to enable this circuit to be revamped for 160 meters. It
>seems to me that if one were to alter the IF and VFO constants
>randomly to get on Top Band then the clock frequency of the PIC would
>be altered, presumably resulting in an odd ball tuning step increment
>as well as a false readout. Your comments would be welcome on this
>subject.

>
>73 de Charles G3OTH
>
>--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> I'm glad you are happy with the kit Charles, I must confess that
>there
>> wasn't as much work put into the filter design as you have made
>checking it!
>>
>> VFO stability can be improved considerably by replacing the
>feedback
>> capacitors C59 - C60 with polystyrene or NP0 ceramic types, I will
>offer
>> this upgrade shortly.
>>
>> Have fun,
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@...>
>> To: <mkars80@...>
>> Sent: Thursday, December 11, 2008 7:56 PM
>> Subject: [mkars80] Re: MKARS80 PCB assembly successfully completed
>>
>>
>> > CONTINUED from last message, sorry about the glitch!
>> >
>> > Using a value for delta F of 1866 HZ obtained from Xtal 1, the
>> > motional capacitance Cm from G3UUR's equations turns out to be
>around
>> > 15fF and Lm around 0.017 H.
>> >
>> > These results would therefore indicate that the Xtals provided
in
>the
>> > kit are ideal for purpose.
>> >
>> > Well done Steve and many thanks.
>> >
>> > Charles G3OTH
>> >
>> > -- In mkars80@..., "g3oth" <g3oth@> wrote:
>> >>
>> >> Hi All
>> >> Last night I successfully completed assembly of the PCB of the
>kit
>> >> which I received from Steve last Friday. The kit supplied was
>> >> complete in every detail and the documentation excellent,

>> > unambiguous
>> >> and free from errors. Thus assembly went very smoothly and I
have
>> >> been able to complete and bench test it after only six evening's
>> > work.
>> >> So far I am impressed with the performance of the receiver,
>> >> particularly the readout and stability of the H&P stabilised
VFO,
>> >> although being new to this facility I need conduct more practice
>> > with
>> >> my tuning technique. The VFO was easily setup with more than
>50KHz
>> > to
>> >> spare at the band edges of 3500 and 3800 KHz and surprisingly
>even
>> >> without a large knob or slomo drive the Polyvaricon coarse
>control
>> >> alone with care can tune in SSB without resort to the fine tune
>pot.
>> >> The LSB filter sounds nice and appears to be working as it
>should.
>> >> Before I permanently soldered in the BFO and Filter Xtals I took
>> > the
>> >> opportunity to test all of them using the BFO circuit of the
>MKARS
>> > as
>> >> a "test jig" a la G3UUR's technique as mentioned on page 3.19 of
>> >> Experimental Methods in RF Design by Wes Hayword et al.
>> >> For those of you interested the results I obtained from the 5
>Xtals
>> >> supplied in Steve's kit measured with and without a series
>> > capacitor
>> >> of 40pF were as follows.
>> >>
>> >> Xtal 1
>> >>
>> >> Fosc = 10,000.146 KHz with 40pF series C, Fosc = 9,998.280 KHz
>no C.
>> >>
>> >> Xtal 2
>> >>
>> >> Fosc = 10,000.173 KHz with 40pF series C, Fosc = 9,998.293 KHz
>no C.
>> >>
>> >> Xtal 3
>> >>
>> >> Fosc = 10,000.191 KHz with 40pF series C, Fosc = 9,998.327 KHz
>no C.
>> >>
>> >> Xtal 4

>> >>
>> >> Fosc = 10,000.174 KHz with 40pF series C, Fosc = 9,998.298 KHz
>no C.
>> >>
>> >> Xtal 5
>> >>
>> >> Fosc = 10,000.128 KHz with 40pf series C, Fosc = 9,998.279 KHz
>no C.
>> >>
>> >> It can be seen from the above that Xtal 3 has highest Fosc and
>for
>> >> this reason it was chosen as the BFO carrier Xtal.
>> >>
>> >> All four remaining Xtals were within 46 Hz and 19 Hz of one
>another
>> >> for the two conditions of test, and these were used to construct
>> > the
>> >> LSB filter.
>> >>
>> >> Using a value for delta F of 1866 HZ obtained from Xtal 1,
>> >>
>> >
>> >
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>> > ------------------------------------
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>> > Yahoo! Groups Links
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>>
>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.176 / Virus Database: 270.9.16/1843 - Release Date:
>12/11/2008
>> 8:36 AM
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>
>------------------------------------
>
>Yahoo! Groups Links

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>

Discounted hotel bookings - http://www.tiscali.co.uk/travel

---

382. Re: MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-12 19:48:11 UTC
From: Liz & Tony Buckland
Topic: 356 Message: 382

Hello Steve,

I replaced C59 & C60 with a couple of ceramic caps I had here and tried it on the air last night and although it was an improvement it was not as much as I thought.

This morning I switched it on from cold and after 30 minutes it had drifted 11.7K, I must be using a different type of ceramic cap than you are?

73 Tony ZL3HAM

383. Re: [mkars80] Re: MKARS80 VFO Stability - A significant improvement?

Yahoo group: mkars80
Date: 2008-12-12 19:55:58 UTC
From: Steve Drury
Topic: 356 Message: 383

Hello Tony,

They must be special NP0 type capacitors, I will load both rigs with them to make sure I'm right - you have seeded doubts! Standard 1nF ceramics will be X7R dielectric (or worse), this isn't suitable for use in VFO circuits as the temperature coefficient is high.

Steve G6ALU

----- Original Message -----
From: "Liz & Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Friday, December 12, 2008 7:48 PM
Subject: [mkars80] Re: MKARS80 VFO Stability - A significant improvement?

> Hello Steve,
>
> I replaced C59 & C60 with a couple of ceramic caps I had here and
> tried it on the air last night and although it was an improvement it
> was not as much as I thought.
>
> This morning I switched it on from cold and after 30 minutes it had
> drifted 11.7K, I must be using a different type of ceramic cap than you
> are?
>
> 73 Tony ZL3HAM
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1845 - Release Date: 12/12/2008 9:02 AM

384. Re: MKARS80 PCB assembly successfully completed

Yahoo group: mkars80
Date: 2008-12-13 00:24:52 UTC
From: g3oth
Topic: 372 Message: 384

Good evening Steve
Just read your msg as I have been out all day here.
FB abt the feasability of doing a PIC for Top Band.
I have not gone deeply into the pros and cons of VFO versus IF for 160 meters but some ideas come to mind which might be worth examining further.
Given that some redesign of HPF and LPF networks and maybe HF transformers would need to be done in any case for 160 meters no matter which scheme was chosen then one of the following might be considered.

First of all one could stick to an IF of 10 MHz and up the VFO (currently 6.2 - 6.5 MHz) to 8.0 - 8.2 MHz thus tuning 2.0 - 1.8 MHz backwards as at present.
The advantage of this would be that no redesign of the current LSB filter would be required nor presumably your code re tuning step increments as the BFO and PIC clock frequency remains the same, the required VFO frequency could be easily raised by simply reducing turns on L5 by about 40% from 40 to say 25 for starters and increasing the padding slightly across the polyvaricon to restrict range and thus further improve bandspread. One might argue that increasing the VFO frequency might encourage more drift but the percentage increase is not that large and is compensated somewhat by the fact that the required range is less and more padding capacitance could be employed, the H&P could probably take care of this in any case. Remembering that Yaesu first used a 8.4 to 8.9 MHz and later a 8.7 to 9.2 MHz analogue VFO in all their HF rigs and Atlas Radio even higher, then I can't see any real problem realising this.

A second suggestion might be to consider using a 5 MHz IF.
Xtals are readily available and could be used to construct a LSB filter, what shape this would take with existing ladder components would need to be investigated however. Required VFO would have to be lowered to 3 to 3.2 MHz, again tuning backwards, requiring about four times as many turns on L5 (not a very nice prospect) if polyvaricon and current padding constants are retained. Stabilty would not be a problem and maybe by using exactly half the current IF and BFO frequency the resulting clock ratio and code could be easily altered to retain 25Hz tuning steps.

Finally one might consider using 5 MHz Xtals to construct a USB Filter, but again this would be unknown territory. However a VFO of 6.8 to 7.0 MHz would need to be employed and since this is not that far away from what you are using already there should be no problem there, but this time we would experience FORWARD tuning which some might say is more acceptable. Sideband inversion means that LSB will

still be resolved ok on Top Band. As to how this relates to your code though I cannot make a judgement.

Spurs generated using any of the above would need to be investigated of course before going any further. I have found some bad spurs with my BITX20A using a 11 MHz IF and 3 to 3.350 MHz for instance. As a result of this there is a spur program in the BITX20 Yahoo group files originated by Dan Tayloe N7VE, which I later ammended that I could use to investage these choices if it is of any interest.

Meanwhile I have yet to package up this MKARS80 and finish off some Softrock projects let alone start on the STAR PCBs !

BTW Ron PA0RCL if you are reading this, thanks for your info last weekend on your case but I have been unable so far to find anything about the Cientsolution company on the web.

73 de Charles G3OTH

--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:

> Morning Charles,
>
> Yes it would be possible to modify the PIC code, have you thought
> about an ideal IF frequency?
>
> Steve G6ALU
>
> >----Original Message----
> >From: g3oth@...
> >Date: 11/12/2008 23:07
> >To: <mkars80@...>
> >Subj: [mkars80] Re: MKARS80 PCB assembly successfully completed
> >
> >FB Steve,
> >I have spent a couple of hours tonight tuning around 80 meters
with
> >the MKARS80 attached to the classic piece of wet string draped
> around
> >the picture rail (actually an uncoiled roll of hookup wire about
30
> >feet long 6 feet high extending from the kitchen to the living
room)
> >and have copied many SSB and CW signals from Europe with excellent
> >results and stability in spite of the fact that the PCB is open to
> >the elements and lying on the table without even the advantage of
> >tuning or gain knobs.
> >I have just about mastered the art of tuning with the H&P now.
> >I had thought about eventually repackaging the kit and using
either
> >an air variable or varicap potentiometer tuning but that was
before

> I
> >experienced the surprise and pleasure of using the kit with the
> >polyvaricon as is, so I doubt whether I ever will now.
> >I have some small 1200pF polystyrene caps here which I might try
> >later as replacements for the C59 and C90 polyester types.
> >My priority now is to check out the transmitter with a heat sink
> into
> >a dummy load and to get a decent 80 meter antenna erected to put
> this
> >little gem through its paces.
> >One question for you. How easy would it be to use or reprogram the
> >existing PIC to enable this circuit to be revamped for 160 meters.
> It
> >seems to me that if one were to alter the IF and VFO constants
> >randomly to get on Top Band then the clock frequency of the PIC
> would
> >be altered, presumably resulting in an odd ball tuning step
> increment
> >as well as a false readout. Your comments would be welcome on this
> >subject.
> >
> >73 de Charles G3OTH
> >
> >--- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> I'm glad you are happy with the kit Charles, I must confess that
> >there
> >> wasn't as much work put into the filter design as you have made
> >checking it!
> >>
> >> VFO stability can be improved considerably by replacing the
> >feedback
> >> capacitors C59 - C60 with polystyrene or NP0 ceramic types, I
will
> >offer
> >> this upgrade shortly.
> >>
> >> Have fun,
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "g3oth" <g3oth@>
> >> To: <mkars80@...>
> >> Sent: Thursday, December 11, 2008 7:56 PM
> >> Subject: [mkars80] Re: MKARS80 PCB assembly successfully
completed
> >>
> >>
> >> > CONTINUED from last message, sorry about the glitch!

> >> >
> >> > Using a value for delta F of 1866 HZ obtained from Xtal 1, the
> >> > motional capacitance Cm from G3UUR's equations turns out to be
> >around
> >> > 15fF and Lm around 0.017 H.
> >> >
> >> > These results would therefore indicate that the Xtals provided
> in
> >the
> >> > kit are ideal for purpose.
> >> >
> >> > Well done Steve and many thanks.
> >> >
> >> > Charles G3OTH
> >> >
> >> > -- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@> wrote:
> >> >>
> >> >> Hi All
> >> >> Last night I successfully completed assembly of the PCB of
the
> >kit
> >> >> which I received from Steve last Friday. The kit supplied was
> >> >> complete in every detail and the documentation excellent,
> >> > unambiguous
> >> >> and free from errors. Thus assembly went very smoothly and I
> have
> >> >> been able to complete and bench test it after only six
evening's
> >> > work.
> >> >> So far I am impressed with the performance of the receiver,
> >> >> particularly the readout and stability of the H&P stabilised
> VFO,
> >> >> although being new to this facility I need conduct more
practice
> >> > with
> >> >> my tuning technique. The VFO was easily setup with more than
> >50KHz
> >> > to
> >> >> spare at the band edges of 3500 and 3800 KHz and surprisingly
> >even
> >> >> without a large knob or slomo drive the Polyvaricon coarse
> >control
> >> >> alone with care can tune in SSB without resort to the fine
tune
> >pot.
> >> >> The LSB filter sounds nice and appears to be working as it
> >should.
> >> >> Before I permanently soldered in the BFO and Filter Xtals I
took
> >> > the

> >> >> opportunity to test all of them using the BFO circuit of the
> >MKARS
> >> > as
> >> >> a "test jig" a la G3UUR's technique as mentioned on page 3.19
of
> >> >> Experimental Methods in RF Design by Wes Hayword et al.
> >> >> For those of you interested the results I obtained from the 5
> >Xtals
> >> >> supplied in Steve's kit measured with and without a series
> >> > capacitor
> >> >> of 40pF were as follows.
> >> >>
> >> >> Xtal 1
> >> >>
> >> >> Fosc = 10,000.146 KHz with 40pF series C, Fosc = 9,998.280
KHz
> >no C.
> >> >>
> >> >> Xtal 2
> >> >>
> >> >> Fosc = 10,000.173 KHz with 40pF series C, Fosc = 9,998.293
KHz
> >no C.
> >> >>
> >> >> Xtal 3
> >> >>
> >> >> Fosc = 10,000.191 KHz with 40pF series C, Fosc = 9,998.327
KHz
> >no C.
> >> >>
> >> >> Xtal 4
> >> >>
> >> >> Fosc = 10,000.174 KHz with 40pF series C, Fosc = 9,998.298
KHz
> >no C.
> >> >>
> >> >> Xtal 5
> >> >>
> >> >> Fosc = 10,000.128 KHz with 40pf series C, Fosc = 9,998.279
KHz
> >no C.
> >> >>
> >> >> It can be seen from the above that Xtal 3 has highest Fosc
and
> >for
> >> >> this reason it was chosen as the BFO carrier Xtal.
> >> >>
> >> >> All four remaining Xtals were within 46 Hz and 19 Hz of one
> >another
> >> >> for the two conditions of test, and these were used to

construct
> >> > the
> >> >> LSB filter.
> >> >>
> >> >> Using a value for delta F of 1866 HZ obtained from Xtal 1,
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> >> > Yahoo! Groups Links
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> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - http://www.avg.com
> >> Version: 8.0.176 / Virus Database: 270.9.16/1843 - Release Date:
> >12/11/2008
> >> 8:36 AM
> >>
> >
> >
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> >------------------------------------
> >
> >Yahoo! Groups Links
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>
>
> Discounted hotel bookings - http://www.tiscali.co.uk/travel
> ~~~~~~
>

385. Re: [mkars80] MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 06:37:45 UTC
From: Charles Blake
Topic: 375 Message: 385

Steve, I hope to be on the net. Different aerial, /P holiday multiband aerial mounted on my balcony handrail, maybe someone will hear me this time.

Regards, Charlie

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Thursday, December 11, 2008 10:24 PM
Subject: [mkars80] MKARS80 net

Shall we try a net this Sunday?

We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!

Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

386. Re: [mkars80] MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 09:31:25 UTC
From: Steve Drury
Topic: 375 Message: 386

I will listen out for you Charlie... lets hope the frequency is clear!

Have you had a couple of the capacitors yet?

Steve G6ALU

----- Original Message -----
From: "Charles Blake" <m0aij@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 6:37 AM
Subject: Re: [mkars80] MKARS80 net

> Steve, I hope to be on the net. Different aerial, /P holiday multiband
> aerial mounted on my balcony handrail, maybe someone will hear me this
> time.
>
> Regards, Charlie
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Thursday, December 11, 2008 10:24 PM
> Subject: [mkars80] MKARS80 net
>
>
> Shall we try a net this Sunday?
>
> We found that 15:00 UTC was a bit late so I intend to hold a net on
> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
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>
>
> [Non-text portions of this message have been removed]
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

387. Re: [mkars80] MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 14:38:05 UTC
From: Steve Drury
Topic: 375 Message: 387

Another successful net this afternoon although band conditions were poor, down in my log I have:

Me (Steve) G6ALU - Milton Keynes
Ray G4TZR - Milton Keynes
Charlie M0AIJ - Milton Keynes (short antenna)
Ted G4OZG - Kings Lynn (nice and loud!)
Calvin M1EPM - Milton Keynes
Ken - G0WKN Spalding
Dave - G0BVV Bracklesham Bay

Thanks to all those who participated this afternoon especially Ken who I believe had just completed his transceiver.

It was suggested we should try a morning slot for the next net, perhaps around 8AM next Sunday?

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 9:31 AM
Subject: Re: [mkars80] MKARS80 net

>I will listen out for you Charlie... lets hope the frequency is clear!
>
> Have you had a couple of the capacitors yet?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Charles Blake" <m0aij@...>
> To: <mkars80@...>
> Sent: Sunday, December 14, 2008 6:37 AM
> Subject: Re: [mkars80] MKARS80 net
>
>
>> Steve, I hope to be on the net. Different aerial, /P holiday multiband
>> aerial mounted on my balcony handrail, maybe someone will hear me this
>> time.
>>
>> Regards, Charlie
>>
>> ----- Original Message -----
>> From: Steve Drury

>> To: mkars80@...
>> Sent: Thursday, December 11, 2008 10:24 PM
>> Subject: [mkars80] MKARS80 net
>>
>>
>> Shall we try a net this Sunday?
>>
>> We found that 15:00 UTC was a bit late so I intend to hold a net on
>> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
>>
>> Steve G6ALU
>>
>> [Non-text portions of this message have been removed]
>>
>>
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>>
>> [Non-text portions of this message have been removed]
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>> ------------------------------------
>>
>> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
> 12/12/2008
> 6:59 PM
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com

Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008 6:59 PM

388. Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 14:50:56 UTC
From: g3oth
Topic: 375 Message: 388

Hi Steve
Heard you put out a call at exactly 1400 and copied you up here in Northumberland most of the time up until 1430 at Q3 to Q5 on my newly completed but unboxed MKARS80 sitting on my knee attached to a 12 volt DC Wallwort and a 30 foot downstairs indoor antenna hung around the picture rail. I could just hear Charlie, Ray and Ted but you Steve were much stronger, note no improvement to signals detected when copied on my main RX. Hope to get it into a box and try out the TX later on this week.
73 de Charles G3OTH

-- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Another successful net this afternoon although band conditions were poor,
> down in my log I have:
>
> Me (Steve) G6ALU - Milton Keynes
> Ray G4TZR - Milton Keynes
> Charlie M0AIJ - Milton Keynes (short antenna)
> Ted G4OZG - Kings Lynn (nice and loud!)
> Calvin M1EPM - Milton Keynes
> Ken - G0WKN Spalding
> Dave - G0BVV Bracklesham Bay
>
> Thanks to all those who participated this afternoon especially Ken who I
> believe had just completed his transceiver.
>
> It was suggested we should try a morning slot for the next net, perhaps
> around 8AM next Sunday?
>
> Steve G6ALU
>
>
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Sunday, December 14, 2008 9:31 AM
> Subject: Re: [mkars80] MKARS80 net
>
>
> >I will listen out for you Charlie... lets hope the frequency is

clear!
> >
> > Have you had a couple of the capacitors yet?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Charles Blake" <m0aij@...>
> > To: <mkars80@...>
> > Sent: Sunday, December 14, 2008 6:37 AM
> > Subject: Re: [mkars80] MKARS80 net
> >
> >
> >> Steve, I hope to be on the net. Different aerial, /P holiday
multiband
> >> aerial mounted on my balcony handrail, maybe someone will hear
me this
> >> time.
> >>
> >> Regards, Charlie
> >>
> >> ----- Original Message -----
> >> From: Steve Drury
> >> To: mkars80@yahoogroups.co.uk
> >> Sent: Thursday, December 11, 2008 10:24 PM
> >> Subject: [mkars80] MKARS80 net
> >>
> >>
> >> Shall we try a net this Sunday?
> >>
> >> We found that 15:00 UTC was a bit late so I intend to hold a
net on
> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
welcome!
> >>
> >> Steve G6ALU
> >>
> >> [Non-text portions of this message have been removed]
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> >> [Non-text portions of this message have been removed]
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> >> Yahoo! Groups Links
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> >
> > No virus found in this incoming message.
> > Checked by AVG - http://www.avg.com
> > Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
> > 12/12/2008
> > 6:59 PM
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
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> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
12/12/2008
> 6:59 PM
>

389. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 14:55:59 UTC
From: Steve Drury
Topic: 375 Message: 389

Hi Charles, glad to hear it works OK.

With the weaker stations I tried to listen with my Pic-A-Star but despite pressing buttons and twiddling knobs I couldn't resolve them any clearer!

Hope to hear you on the next net.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 2:50 PM
Subject: [mkars80] Re: MKARS80 net

> Hi Steve
> Heard you put out a call at exactly 1400 and copied you up here in
> Northumberland most of the time up until 1430 at Q3 to Q5 on my newly
> completed but unboxed MKARS80 sitting on my knee attached to a 12
> volt DC Wallwort and a 30 foot downstairs indoor antenna hung around
> the picture rail. I could just hear Charlie, Ray and Ted but you
> Steve were much stronger, note no improvement to signals detected
> when copied on my main RX. Hope to get it into a box and try out the
> TX later on this week.
> 73 de Charles G3OTH
>
> -- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Another successful net this afternoon although band conditions were
> poor,
>> down in my log I have:
>>
>> Me (Steve) G6ALU - Milton Keynes
>> Ray G4TZR - Milton Keynes
>> Charlie M0AIJ - Milton Keynes (short antenna)
>> Ted G4OZG - Kings Lynn (nice and loud!)
>> Calvin M1EPM - Milton Keynes
>> Ken - G0WKN Spalding
>> Dave - G0BVV Bracklesham Bay
>>
>> Thanks to all those who participated this afternoon especially Ken
> who I
>> believe had just completed his transceiver.
>>
>> It was suggested we should try a morning slot for the next net,
> perhaps

>> around 8AM next Sunday?
>>
>> Steve G6ALU
>>
>>
>>
>> ----- Original Message -----
>> From: "Steve Drury" <g6alu@...>
>> To: <mkars80@...>
>> Sent: Sunday, December 14, 2008 9:31 AM
>> Subject: Re: [mkars80] MKARS80 net
>>
>>
>> >I will listen out for you Charlie... lets hope the frequency is
> clear!
>> >
>> > Have you had a couple of the capacitors yet?
>> >
>> > Steve G6ALU
>> >
>> > ----- Original Message -----
>> > From: "Charles Blake" <m0aij@...>
>> > To: <mkars80@...>
>> > Sent: Sunday, December 14, 2008 6:37 AM
>> > Subject: Re: [mkars80] MKARS80 net
>> >
>> >
>> >> Steve, I hope to be on the net. Different aerial, /P holiday
> multiband
>> >> aerial mounted on my balcony handrail, maybe someone will hear
> me this
>> >> time.
>> >>
>> >> Regards, Charlie
>> >>
>> >> ----- Original Message -----
>> >> From: Steve Drury
>> >> To: mkars80@...
>> >> Sent: Thursday, December 11, 2008 10:24 PM
>> >> Subject: [mkars80] MKARS80 net
>> >>
>> >>
>> >> Shall we try a net this Sunday?
>> >>
>> >> We found that 15:00 UTC was a bit late so I intend to hold a
> net on
>> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
> welcome!
>> >>
>> >> Steve G6ALU

>> >>
>> >> [Non-text portions of this message have been removed]
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>> >> [Non-text portions of this message have been removed]
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>> >> Yahoo! Groups Links
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>> > Yahoo! Groups Links
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>>
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> 12/12/2008
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

390. Re: [mkars80] MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:00:20 UTC
From: pa0rcl
Topic: 375 Message: 390

Hi all,

Just wanted to let you all know that I listened this afternoon on 3.700.000 with one of my MKARS80's and indeed heard some distinctly Britsh male voices. The signals were weak, in the order of S3 and I could'nt distinguish any call. I could, however, copy odd parts of QSO's with some difficulty. My QTH is in het east part of the Netherlands, near the German border.

Good luck and 73

Ron pa0rcl

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, December 14, 2008 3:38 PM
Subject: Re: [mkars80] MKARS80 net

Another successful net this afternoon although band conditions were poor,
down in my log I have:

Me (Steve) G6ALU - Milton Keynes
Ray G4TZR - Milton Keynes
Charlie M0AIJ - Milton Keynes (short antenna)
Ted G4OZG - Kings Lynn (nice and loud!)
Calvin M1EPM - Milton Keynes
Ken - G0WKN Spalding
Dave - G0BVV Bracklesham Bay

Thanks to all those who participated this afternoon especially Ken who I
believe had just completed his transceiver.

It was suggested we should try a morning slot for the next net, perhaps
around 8AM next Sunday?

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 9:31 AM
Subject: Re: [mkars80] MKARS80 net

>I will listen out for you Charlie... lets hope the frequency is clear!
>
> Have you had a couple of the capacitors yet?
>
> Steve G6ALU

>
> ----- Original Message -----
> From: "Charles Blake" <m0aij@...>
> To: <mkars80@...>
> Sent: Sunday, December 14, 2008 6:37 AM
> Subject: Re: [mkars80] MKARS80 net
>
>
>> Steve, I hope to be on the net. Different aerial, /P holiday multiband
>> aerial mounted on my balcony handrail, maybe someone will hear me this
>> time.
>>
>> Regards, Charlie
>>
>> ----- Original Message -----
>> From: Steve Drury
>> To: mkars80@...
>> Sent: Thursday, December 11, 2008 10:24 PM
>> Subject: [mkars80] MKARS80 net
>>
>>
>> Shall we try a net this Sunday?
>>
>> We found that 15:00 UTC was a bit late so I intend to hold a net on
>> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
>>
>> Steve G6ALU
>>
>> [Non-text portions of this message have been removed]
>>
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>> [Non-text portions of this message have been removed]
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>> ------------------------------------
>>
>> Yahoo! Groups Links
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>
> No virus found in this incoming message.

> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
> 12/12/2008
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> Yahoo! Groups Links
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No virus found in this incoming message.
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6:59 PM

[Non-text portions of this message have been removed]

391. Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:01:06 UTC
From: g3oth
Topic: 375 Message: 391

OK FB Steve
Just out of interest did you note your readout frequency
I think I copied you best at 3699.975 on my dial. It would be useful
to know how far out I am with my current settings here.
73 de Charles G3OTH

-- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Charles, glad to hear it works OK.
>
> With the weaker stations I tried to listen with my Pic-A-Star but
despite
> pressing buttons and twiddling knobs I couldn't resolve them any
clearer!
>
> Hope to hear you on the next net.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Sunday, December 14, 2008 2:50 PM
> Subject: [mkars80] Re: MKARS80 net
>
>
> > Hi Steve
> > Heard you put out a call at exactly 1400 and copied you up here in
> > Northumberland most of the time up until 1430 at Q3 to Q5 on my
newly
> > completed but unboxed MKARS80 sitting on my knee attached to a 12
> > volt DC Wallwort and a 30 foot downstairs indoor antenna hung
around
> > the picture rail. I could just hear Charlie, Ray and Ted but you
> > Steve were much stronger, note no improvement to signals detected
> > when copied on my main RX. Hope to get it into a box and try out
the
> > TX later on this week.
> > 73 de Charles G3OTH
> >
> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Another successful net this afternoon although band conditions
were
> > poor,

> >> down in my log I have:
> >>
> >> Me (Steve) G6ALU - Milton Keynes
> >> Ray G4TZR - Milton Keynes
> >> Charlie M0AIJ - Milton Keynes (short antenna)
> >> Ted G4OZG - Kings Lynn (nice and loud!)
> >> Calvin M1EPM - Milton Keynes
> >> Ken - G0WKN Spalding
> >> Dave - G0BVV Bracklesham Bay
> >>
> >> Thanks to all those who participated this afternoon especially
Ken
> > who I
> >> believe had just completed his transceiver.
> >>
> >> It was suggested we should try a morning slot for the next net,
> > perhaps
> >> around 8AM next Sunday?
> >>
> >> Steve G6ALU
> >>
> >>
> >>
> >> ----- Original Message -----
> >> From: "Steve Drury" <g6alu@>
> >> To: <mkars80@...>
> >> Sent: Sunday, December 14, 2008 9:31 AM
> >> Subject: Re: [mkars80] MKARS80 net
> >>
> >>
> >> >I will listen out for you Charlie... lets hope the frequency is
> > clear!
> >> >
> >> > Have you had a couple of the capacitors yet?
> >> >
> >> > Steve G6ALU
> >> >
> >> > ----- Original Message -----
> >> > From: "Charles Blake" <m0aij@>
> >> > To: <mkars80@...>
> >> > Sent: Sunday, December 14, 2008 6:37 AM
> >> > Subject: Re: [mkars80] MKARS80 net
> >> >
> >> >
> >> >> Steve, I hope to be on the net. Different aerial, /P holiday
> > multiband
> >> >> aerial mounted on my balcony handrail, maybe someone will hear
> > me this
> >> >> time.
> >> >>

> >> >> Regards, Charlie
> >> >>
> >> >> ----- Original Message -----
> >> >> From: Steve Drury
> >> >> To: mkars80@...
> >> >> Sent: Thursday, December 11, 2008 10:24 PM
> >> >> Subject: [mkars80] MKARS80 net
> >> >>
> >> >>
> >> >> Shall we try a net this Sunday?
> >> >>
> >> >> We found that 15:00 UTC was a bit late so I intend to hold a
> > net on
> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
> > welcome!
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> [Non-text portions of this message have been removed]
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> >> >> Yahoo! Groups Links
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> >> >
> >> > No virus found in this incoming message.
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> >> > Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release
Date:
> >> > 12/12/2008
> >> > 6:59 PM
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> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
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> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
12/12/2008
> 6:59 PM
>

392. Re: [mkars80] MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:04:21 UTC
From: Steve Drury
Topic: 375 Message: 392

Hi Ron,

Perhaps if the conditions are more favourable you will be able to
participate next time.

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 3:00 PM
Subject: Re: [mkars80] MKARS80 net

> Hi all,
>
> Just wanted to let you all know that I listened this afternoon on
> 3.700.000 with one of my MKARS80's and indeed heard some distinctly Britsh
> male voices. The signals were weak, in the order of S3 and I could'nt
> distinguish any call. I could, however, copy odd parts of QSO's with some
> difficulty. My QTH is in het east part of the Netherlands, near the German
> border.
>
> Good luck and 73
>
> Ron pa0rcl
>
>
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Sunday, December 14, 2008 3:38 PM
> Subject: Re: [mkars80] MKARS80 net
>
>
> Another successful net this afternoon although band conditions were poor,
> down in my log I have:
>
> Me (Steve) G6ALU - Milton Keynes
> Ray G4TZR - Milton Keynes
> Charlie M0AIJ - Milton Keynes (short antenna)
> Ted G4OZG - Kings Lynn (nice and loud!)
> Calvin M1EPM - Milton Keynes
> Ken - G0WKN Spalding
> Dave - G0BVV Bracklesham Bay

>
> Thanks to all those who participated this afternoon especially Ken who I
> believe had just completed his transceiver.
>
> It was suggested we should try a morning slot for the next net, perhaps
> around 8AM next Sunday?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Sunday, December 14, 2008 9:31 AM
> Subject: Re: [mkars80] MKARS80 net
>
> >I will listen out for you Charlie... lets hope the frequency is clear!
> >
> > Have you had a couple of the capacitors yet?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Charles Blake" <m0aij@...>
> > To: <mkars80@...>
> > Sent: Sunday, December 14, 2008 6:37 AM
> > Subject: Re: [mkars80] MKARS80 net
> >
> >
> >> Steve, I hope to be on the net. Different aerial, /P holiday multiband
> >> aerial mounted on my balcony handrail, maybe someone will hear me this
> >> time.
> >>
> >> Regards, Charlie
> >>
> >> ----- Original Message -----
> >> From: Steve Drury
> >> To: mkars80@...
> >> Sent: Thursday, December 11, 2008 10:24 PM
> >> Subject: [mkars80] MKARS80 net
> >>
> >>
> >> Shall we try a net this Sunday?
> >>
> >> We found that 15:00 UTC was a bit late so I intend to hold a net on
> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
> welcome!
> >>
> >> Steve G6ALU
> >>
> >> [Non-text portions of this message have been removed]

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> >> [Non-text portions of this message have been removed]
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> >> ------------------------------------
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> >> Yahoo! Groups Links
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> > > ------------------------------------
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> > [Non-text portions of this message have been removed]
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> > ----------------------------------

>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

393. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:05:32 UTC
From: Steve Drury
Topic: 375 Message: 393

I was set to 3.7000 MHz but others may like to comment, especially if they
are using "known" accurate VFOs!

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 3:01 PM
Subject: [mkars80] Re: MKARS80 net

> OK FB Steve
> Just out of interest did you note your readout frequency
> I think I copied you best at 3699.975 on my dial. It would be useful
> to know how far out I am with my current settings here.
> 73 de Charles G3OTH
>
> -- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hi Charles, glad to hear it works OK.
>>
>> With the weaker stations I tried to listen with my Pic-A-Star but
> despite
>> pressing buttons and twiddling knobs I couldn't resolve them any
> clearer!
>>
>> Hope to hear you on the next net.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@...>
>> To: <mkars80@...>
>> Sent: Sunday, December 14, 2008 2:50 PM
>> Subject: [mkars80] Re: MKARS80 net
>>
>>
>> > Hi Steve
>> > Heard you put out a call at exactly 1400 and copied you up here in
>> > Northumberland most of the time up until 1430 at Q3 to Q5 on my
> newly
>> > completed but unboxed MKARS80 sitting on my knee attached to a 12
>> > volt DC Wallwort and a 30 foot downstairs indoor antenna hung
> around
>> > the picture rail. I could just hear Charlie, Ray and Ted but you
>> > Steve were much stronger, note no improvement to signals detected

>> > when copied on my main RX. Hope to get it into a box and try out
> the
>> > TX later on this week.
>> > 73 de Charles G3OTH
>> >
>> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Another successful net this afternoon although band conditions
> were
>> > poor,
>> >> down in my log I have:
>> >>
>> >> Me (Steve) G6ALU - Milton Keynes
>> >> Ray G4TZR - Milton Keynes
>> >> Charlie M0AIJ - Milton Keynes (short antenna)
>> >> Ted G4OZG - Kings Lynn (nice and loud!)
>> >> Calvin M1EPM - Milton Keynes
>> >> Ken - G0WKN Spalding
>> >> Dave - G0BVV Bracklesham Bay
>> >>
>> >> Thanks to all those who participated this afternoon especially
> Ken
>> > who I
>> >> believe had just completed his transceiver.
>> >>
>> >> It was suggested we should try a morning slot for the next net,
>> > perhaps
>> >> around 8AM next Sunday?
>> >>
>> >> Steve G6ALU
>> >>
>> >>
>> >>
>> >> ----- Original Message -----
>> >> From: "Steve Drury" <g6alu@>
>> >> To: <mkars80@...>
>> >> Sent: Sunday, December 14, 2008 9:31 AM
>> >> Subject: Re: [mkars80] MKARS80 net
>> >>
>> >>
>> >> >I will listen out for you Charlie... lets hope the frequency is
>> > clear!
>> >> >
>> >> > Have you had a couple of the capacitors yet?
>> >> >
>> >> > Steve G6ALU
>> >> >
>> >> > ----- Original Message -----
>> >> > From: "Charles Blake" <m0aij@>
>> >> > To: <mkars80@...>

>> >> > Sent: Sunday, December 14, 2008 6:37 AM
>> >> > Subject: Re: [mkars80] MKARS80 net
>> >> >
>> >> >
>> >> >> Steve, I hope to be on the net. Different aerial, /P holiday
>> > multiband
>> >> >> aerial mounted on my balcony handrail, maybe someone will hear
>> > me this
>> >> >> time.
>> >> >>
>> >> >> Regards, Charlie
>> >> >>
>> >> >> ----- Original Message -----
>> >> >> From: Steve Drury
>> >> >> To: mkars80@...
>> >> >> Sent: Thursday, December 11, 2008 10:24 PM
>> >> >> Subject: [mkars80] MKARS80 net
>> >> >>
>> >> >>
>> >> >> Shall we try a net this Sunday?
>> >> >>
>> >> >> We found that 15:00 UTC was a bit late so I intend to hold a
>> > net on
>> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
>> > welcome!
>> >> >>
>> >> >> Steve G6ALU
>> >> >>
>> >> >> [Non-text portions of this message have been removed]
>> >> >>
>> >> >>
>> >> >>
>> >> >>
>> >> >>
>> >> >> [Non-text portions of this message have been removed]
>> >> >>
>> >> >>
>> >> >> ------------------------------------
>> >> >>
>> >> >> Yahoo! Groups Links
>> >> >>
>> >> >>
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>> >> > --
> ---
>> > --------------
>> >> >
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>> >> >
>> >> > No virus found in this incoming message.
>> >> > Checked by AVG - http://www.avg.com
>> >> > Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release
> Date:
>> >> > 12/12/2008
>> >> > 6:59 PM
>> >> >
>> >> >
>> >> > ------------------------------------
>> >> >
>> >> > Yahoo! Groups Links
>> >> >
>> >> >
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>>
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>

No virus found in this incoming message.
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Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

394. Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:14:20 UTC
From: g3oth
Topic: 375 Message: 394

Fb Ron,
Well I think perhaps that you and I are probably about the same distance away from Milton Keynes so that is the reason we dont copy some of the stations so well.
I have my MKARS80 wkg ok and am very pleased with the results.
Did you manage to get your camera back from your daughter yet to take some more photos of inside of your rig.
I have posted some pictures of my progress in the Photo section, I probably will just use the supplied aluminium box for the time being as I dont think I will need to have a need to improve on the Polyvaricon simple method of tuning after all, which is quite a surprise for me, as the H&P is working so well.
73 de Charles G3OTH

-- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> Hi all,
>
> Just wanted to let you all know that I listened this afternoon on 3.700.000 with one of my MKARS80's and indeed heard some distinctly Britsh male voices. The signals were weak, in the order of S3 and I could'nt distinguish any call. I could, however, copy odd parts of QSO's with some difficulty. My QTH is in het east part of the Netherlands, near the German border.
>
> Good luck and 73
>
> Ron pa0rcl
>
>
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Sunday, December 14, 2008 3:38 PM
> Subject: Re: [mkars80] MKARS80 net
>
>
> Another successful net this afternoon although band conditions were poor,
> down in my log I have:
>
> Me (Steve) G6ALU - Milton Keynes
> Ray G4TZR - Milton Keynes

> Charlie M0AIJ - Milton Keynes (short antenna)
> Ted G4OZG - Kings Lynn (nice and loud!)
> Calvin M1EPM - Milton Keynes
> Ken - G0WKN Spalding
> Dave - G0BVV Bracklesham Bay
>
> Thanks to all those who participated this afternoon especially
Ken who I
> believe had just completed his transceiver.
>
> It was suggested we should try a morning slot for the next net,
perhaps
> around 8AM next Sunday?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Sunday, December 14, 2008 9:31 AM
> Subject: Re: [mkars80] MKARS80 net
>
> >I will listen out for you Charlie... lets hope the frequency is
clear!
> >
> > Have you had a couple of the capacitors yet?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Charles Blake" <m0aij@...>
> > To: <mkars80@...>
> > Sent: Sunday, December 14, 2008 6:37 AM
> > Subject: Re: [mkars80] MKARS80 net
> >
> >
> >> Steve, I hope to be on the net. Different aerial, /P holiday
multiband
> >> aerial mounted on my balcony handrail, maybe someone will hear
me this
> >> time.
> >>
> >> Regards, Charlie
> >>
> >> ----- Original Message -----
> >> From: Steve Drury
> >> To: mkars80@yahoogroups.co.uk
> >> Sent: Thursday, December 11, 2008 10:24 PM
> >> Subject: [mkars80] MKARS80 net
> >>

> >>
> >> Shall we try a net this Sunday?
> >>
> >> We found that 15:00 UTC was a bit late so I intend to hold a
net on
> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
welcome!
> >>
> >> Steve G6ALU
> >>
> >> [Non-text portions of this message have been removed]
> >>
> >>
> >>
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> >>
> >> [Non-text portions of this message have been removed]
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> >>
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> > > Yahoo! Groups Links
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> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
12/12/2008
> 6:59 PM
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

395. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:26:30 UTC
From: Chris Harmer
Topic: 375 Message: 395

Steve:

You were 37010 on my FT-817ND. I have to plead guilty to not having built my kit yet due to other pressures, so I only listened! For info, located at Nailsworth in Gloucestershire, halfway between Cheltenham and Bath, using a ZS6BKW version of the G5RV, tuned to 1.1:1, and listening on the FT-817, reports were (1400 to 1415UTC):
Noise floor S3 to S5.
G6ALU S6 min, S9 max, typically S8.
G4OZG S6 min, S8 max, typically S7
M0AIJ no copy.
M1EPM S7
G0BVV S6
Another G0, call not copied, S7
The rest were not readable.

Regards, Chris M0HMR.
----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, December 14, 2008 3:05 PM
Subject: Re: [mkars80] Re: MKARS80 net

I was set to 3.7000 MHz but others may like to comment, especially if they
are using "known" accurate VFOs!

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 3:01 PM
Subject: [mkars80] Re: MKARS80 net

> OK FB Steve
> Just out of interest did you note your readout frequency
> I think I copied you best at 3699.975 on my dial. It would be useful
> to know how far out I am with my current settings here.
> 73 de Charles G3OTH
>
> -- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hi Charles, glad to hear it works OK.
>>
>> With the weaker stations I tried to listen with my Pic-A-Star but
> despite
>> pressing buttons and twiddling knobs I couldn't resolve them any

> clearer!
>>
>> Hope to hear you on the next net.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@...>
>> To: <mkars80@...>
>> Sent: Sunday, December 14, 2008 2:50 PM
>> Subject: [mkars80] Re: MKARS80 net
>>
>>
>> > Hi Steve
>> > Heard you put out a call at exactly 1400 and copied you up here in
>> > Northumberland most of the time up until 1430 at Q3 to Q5 on my
> newly
>> > completed but unboxed MKARS80 sitting on my knee attached to a 12
>> > volt DC Wallwort and a 30 foot downstairs indoor antenna hung
> around
>> > the picture rail. I could just hear Charlie, Ray and Ted but you
>> > Steve were much stronger, note no improvement to signals detected
>> > when copied on my main RX. Hope to get it into a box and try out
> the
>> > TX later on this week.
>> > 73 de Charles G3OTH
>> >
>> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Another successful net this afternoon although band conditions
> were
>> > poor,
>> >> down in my log I have:
>> >>
>> >> Me (Steve) G6ALU - Milton Keynes
>> >> Ray G4TZR - Milton Keynes
>> >> Charlie M0AIJ - Milton Keynes (short antenna)
>> >> Ted G4OZG - Kings Lynn (nice and loud!)
>> >> Calvin M1EPM - Milton Keynes
>> >> Ken - G0WKN Spalding
>> >> Dave - G0BVV Bracklesham Bay
>> >>
>> >> Thanks to all those who participated this afternoon especially
> Ken
>> > who I
>> >> believe had just completed his transceiver.
>> >>
>> >> It was suggested we should try a morning slot for the next net,
>> > perhaps
>> >> around 8AM next Sunday?

>> >>
>> >> Steve G6ALU
>> >>
>> >>
>> >>
>> >> ----- Original Message -----
>> >> From: "Steve Drury" <g6alu@>
>> >> To: <mkars80@...>
>> >> Sent: Sunday, December 14, 2008 9:31 AM
>> >> Subject: Re: [mkars80] MKARS80 net
>> >>
>> >>
>> >> >I will listen out for you Charlie... lets hope the frequency is
>> > clear!
>> >> >
>> >> > Have you had a couple of the capacitors yet?
>> >> >
>> >> > Steve G6ALU
>> >> >
>> >> > ----- Original Message -----
>> >> > From: "Charles Blake" <m0aij@>
>> >> > To: <mkars80@...>
>> >> > Sent: Sunday, December 14, 2008 6:37 AM
>> >> > Subject: Re: [mkars80] MKARS80 net
>> >> >
>> >> >
>> >> >> Steve, I hope to be on the net. Different aerial, /P holiday
>> > multiband
>> >> >> aerial mounted on my balcony handrail, maybe someone will hear
>> > me this
>> >> >> time.
>> >> >>
>> >> >> Regards, Charlie
>> >> >>
>> >> >> ----- Original Message -----
>> >> >> From: Steve Drury
>> >> >> To: mkars80@...
>> >> >> Sent: Thursday, December 11, 2008 10:24 PM
>> >> >> Subject: [mkars80] MKARS80 net
>> >> >>
>> >> >>
>> >> >> Shall we try a net this Sunday?
>> >> >>
>> >> >> We found that 15:00 UTC was a bit late so I intend to hold a
>> > net on
>> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
>> > welcome!
>> >> >>
>> >> >> Steve G6ALU
>> >> >>

>> >> >> [Non-text portions of this message have been removed]
>> >> >>
>> >> >>
>> >> >>
>> >> >>
>> >> >>
>> >> >> [Non-text portions of this message have been removed]
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>> >> >> ------------------------------------
>> >> >>
>> >> >> Yahoo! Groups Links
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>> >> > --
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>> >> >
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>> >> > No virus found in this incoming message.
>> >> > Checked by AVG - http://www.avg.com
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6:59 PM

[Non-text portions of this message have been removed]

396. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:30:00 UTC
From: Steve Drury
Topic: 375 Message: 396

Thanks Chris,

Hope you find time soon!

Steve G6ALU

----- Original Message -----
From: "Chris Harmer" <chris@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 3:26 PM
Subject: Re: [mkars80] Re: MKARS80 net

> Steve:
>
> You were 37010 on my FT-817ND. I have to plead guilty to not having built
> my kit yet due to other pressures, so I only listened! For info, located
> at Nailsworth in Gloucestershire, halfway between Cheltenham and Bath,
> using a ZS6BKW version of the G5RV, tuned to 1.1:1, and listening on the
> FT-817, reports were (1400 to 1415UTC):
> Noise floor S3 to S5.
> G6ALU S6 min, S9 max, typically S8.
> G4OZG S6 min, S8 max, typically S7
> M0AIJ no copy.
> M1EPM S7
> G0BVV S6
> Another G0, call not copied, S7
> The rest were not readable.
>
> Regards, Chris M0HMR.
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Sunday, December 14, 2008 3:05 PM
> Subject: Re: [mkars80] Re: MKARS80 net
>
>
> I was set to 3.7000 MHz but others may like to comment, especially if
> they
> are using "known" accurate VFOs!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Sunday, December 14, 2008 3:01 PM

> Subject: [mkars80] Re: MKARS80 net
>
> > OK FB Steve
> > Just out of interest did you note your readout frequency
> > I think I copied you best at 3699.975 on my dial. It would be useful
> > to know how far out I am with my current settings here.
> > 73 de Charles G3OTH
> >
> > -- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
> >>
> >> Hi Charles, glad to hear it works OK.
> >>
> >> With the weaker stations I tried to listen with my Pic-A-Star but
> > despite
> >> pressing buttons and twiddling knobs I couldn't resolve them any
> > clearer!
> >>
> >> Hope to hear you on the next net.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "g3oth" <g3oth@...>
> >> To: <mkars80@...>
> >> Sent: Sunday, December 14, 2008 2:50 PM
> >> Subject: [mkars80] Re: MKARS80 net
> >>
> >>
> >> > Hi Steve
> >> > Heard you put out a call at exactly 1400 and copied you up here in
> >> > Northumberland most of the time up until 1430 at Q3 to Q5 on my
> > newly
> >> > completed but unboxed MKARS80 sitting on my knee attached to a 12
> >> > volt DC Wallwort and a 30 foot downstairs indoor antenna hung
> > around
> >> > the picture rail. I could just hear Charlie, Ray and Ted but you
> >> > Steve were much stronger, note no improvement to signals detected
> >> > when copied on my main RX. Hope to get it into a box and try out
> > the
> >> > TX later on this week.
> >> > 73 de Charles G3OTH
> >> >
> >> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Another successful net this afternoon although band conditions
> > were
> >> > poor,
> >> >> down in my log I have:
> >> >>
> >> >> Me (Steve) G6ALU - Milton Keynes

> >> >> Ray G4TZR - Milton Keynes
> >> >> Charlie M0AIJ - Milton Keynes (short antenna)
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> >> >> Calvin M1EPM - Milton Keynes
> >> >> Ken - G0WKN Spalding
> >> >> Dave - G0BVV Bracklesham Bay
> >> >>
> >> >> Thanks to all those who participated this afternoon especially
> > Ken
> >> > who I
> >> >> believe had just completed his transceiver.
> >> >>
> >> >> It was suggested we should try a morning slot for the next net,
> >> > perhaps
> >> >> around 8AM next Sunday?
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >>
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "Steve Drury" <g6alu@>
> >> >> To: <mkars80@...>
> >> >> Sent: Sunday, December 14, 2008 9:31 AM
> >> >> Subject: Re: [mkars80] MKARS80 net
> >> >>
> >> >>
> >> >> >I will listen out for you Charlie... lets hope the frequency is
> >> > clear!
> >> >> >
> >> >> > Have you had a couple of the capacitors yet?
> >> >> >
> >> >> > Steve G6ALU
> >> >> >
> >> >> > ----- Original Message -----
> >> >> > From: "Charles Blake" <m0aij@>
> >> >> > To: <mkars80@...>
> >> >> > Sent: Sunday, December 14, 2008 6:37 AM
> >> >> > Subject: Re: [mkars80] MKARS80 net
> >> >> >
> >> >> >
> >> >> >> Steve, I hope to be on the net. Different aerial, /P holiday
> >> > multiband
> >> >> >> aerial mounted on my balcony handrail, maybe someone will hear
> >> > me this
> >> >> >> time.
> >> >> >>
> >> >> >> Regards, Charlie
> >> >> >>
> >> >> >> ----- Original Message -----

> >> >> >> From: Steve Drury
> >> >> >> To: mkars80@...
> >> >> >> Sent: Thursday, December 11, 2008 10:24 PM
> >> >> >> Subject: [mkars80] MKARS80 net
> >> >> >>
> >> >> >>
> >> >> >> Shall we try a net this Sunday?
> >> >> >>
> >> >> >> We found that 15:00 UTC was a bit late so I intend to hold a
> >> > net on
> >> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
> >> > welcome!
> >> >> >>
> >> >> >> Steve G6ALU
> >> >> >>
> >> >> >> [Non-text portions of this message have been removed]
> >> >> >>
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> >> > --------------
> >> >> >
> >> >> >
> >> >> >
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> >> >> > Checked by AVG - http://www.avg.com
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> > Date:
> >> >> > 12/12/2008
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>
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>
>
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> [Non-text portions of this message have been removed]
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Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

397. Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:32:44 UTC
From: g3oth
Topic: 375 Message: 397

Steve yes it would be useful to know if anyone has access to a
standard to compare our settings. You sounded ok on 3700.000 KHz but
I thought I got better copy when I dropped down 25 Hz.
Am I right in assuming that the integrity of the frequency readout
would be optimum when the BFO and hence your PIC clock is set to
exactly 10,000.000KHz ? If so then I assume that if one is after
precision of readout then that would be the way to go, therefore
there might have to be a compromise made if one wanted to match the
BFO to the filter characteristics for best voice reproduction, or can
your software take care of this somehow ?

73 de Chatrles G3OTH

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> I was set to 3.7000 MHz but others may like to comment, especially
if they
> are using "known" accurate VFOs!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Sunday, December 14, 2008 3:01 PM
> Subject: [mkars80] Re: MKARS80 net
>
>
> > OK FB Steve
> > Just out of interest did you note your readout frequency
> > I think I copied you best at 3699.975 on my dial. It would be
useful
> > to know how far out I am with my current settings here.
> > 73 de Charles G3OTH
> >
> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Hi Charles, glad to hear it works OK.
> >>
> >> With the weaker stations I tried to listen with my Pic-A-Star but
> > despite
> >> pressing buttons and twiddling knobs I couldn't resolve them any
> > clearer!
> >>
> >> Hope to hear you on the next net.

> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "g3oth" <g3oth@>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Sunday, December 14, 2008 2:50 PM
> >> Subject: [mkars80] Re: MKARS80 net
> >>
> >>
> >> > Hi Steve
> >> > Heard you put out a call at exactly 1400 and copied you up
here in
> >> > Northumberland most of the time up until 1430 at Q3 to Q5 on my
> > newly
> >> > completed but unboxed MKARS80 sitting on my knee attached to a
12
> >> > volt DC Wallwort and a 30 foot downstairs indoor antenna hung
> > around
> >> > the picture rail. I could just hear Charlie, Ray and Ted but
you
> >> > Steve were much stronger, note no improvement to signals
detected
> >> > when copied on my main RX. Hope to get it into a box and try
out
> > the
> >> > TX later on this week.
> >> > 73 de Charles G3OTH
> >> >
> >> > -- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Another successful net this afternoon although band conditions
> > were
> >> > poor,
> >> >> down in my log I have:
> >> >>
> >> >> Me (Steve) G6ALU - Milton Keynes
> >> >> Ray G4TZR - Milton Keynes
> >> >> Charlie M0AIJ - Milton Keynes (short antenna)
> >> >> Ted G4OZG - Kings Lynn (nice and loud!)
> >> >> Calvin M1EPM - Milton Keynes
> >> >> Ken - G0WKN Spalding
> >> >> Dave - G0BVV Bracklesham Bay
> >> >>
> >> >> Thanks to all those who participated this afternoon especially
> > Ken
> >> > who I
> >> >> believe had just completed his transceiver.
> >> >>
> >> >> It was suggested we should try a morning slot for the next

net,
> >> > perhaps
> >> >> around 8AM next Sunday?
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >>
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "Steve Drury" <g6alu@>
> >> >> To: <mkars80@yahoogroups.co.uk>
> >> >> Sent: Sunday, December 14, 2008 9:31 AM
> >> >> Subject: Re: [mkars80] MKARS80 net
> >> >>
> >> >>
> >> >> >I will listen out for you Charlie... lets hope the frequency
is
> >> > clear!
> >> >> >
> >> >> > Have you had a couple of the capacitors yet?
> >> >> >
> >> >> > Steve G6ALU
> >> >> >
> >> >> > ----- Original Message -----
> >> >> > From: "Charles Blake" <m0aij@>
> >> >> > To: <mkars80@...>
> >> >> > Sent: Sunday, December 14, 2008 6:37 AM
> >> >> > Subject: Re: [mkars80] MKARS80 net
> >> >> >
> >> >> >
> >> >> >> Steve, I hope to be on the net. Different aerial, /P
holiday
> >> > multiband
> >> >> >> aerial mounted on my balcony handrail, maybe someone will
hear
> >> > me this
> >> >> >> time.
> >> >> >>
> >> >> >> Regards, Charlie
> >> >> >>
> >> >> >> ----- Original Message -----
> >> >> >> From: Steve Drury
> >> >> >> To: mkars80@yahoogroups.co.uk
> >> >> >> Sent: Thursday, December 11, 2008 10:24 PM
> >> >> >> Subject: [mkars80] MKARS80 net
> >> >> >>
> >> >> >>
> >> >> >> Shall we try a net this Sunday?
> >> >> >>
> >> >> >> We found that 15:00 UTC was a bit late so I intend to

hold a
> >> > net on
> >> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December..
all
> >> > welcome!
> >> >> >>
> >> >> >> Steve G6ALU
> >> >> >>
> >> >> >> [Non-text portions of this message have been removed]
> >> >> >>
> >> >> >>
> >> >> >>
> >> >> >>
> >> >> >>
> >> >> >> [Non-text portions of this message have been removed]
> >> >> >>
> >> >> >>
> >> >> >> ------------------------------------
> >> >> >>
> >> >> >> Yahoo! Groups Links
> >> >> >>
> >> >> >>
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> >> >> >
> >> >> > --

> > ---
> >> > --------------
> >> >> >
> >> >> >
> >> >> >
> >> >> > No virus found in this incoming message.
> >> >> > Checked by AVG - http://www.avg.com
> >> >> > Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release
> > Date:
> >> >> > 12/12/2008
> >> >> > 6:59 PM
> >> >> >
> >> >> >
> >> >> > ------------------------------------
> >> >> >
> >> >> > Yahoo! Groups Links
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> >> >>
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> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
12/12/2008
> 6:59 PM
>

398. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 15:37:52 UTC
From: Steve Drury
Topic: 375 Message: 398

Charles,

The PIC clock may not be set to 10.00 MHz as it comes off the CIO (BFO),
mine is set a littel below that figure. The PIC code compensates for this.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 3:32 PM
Subject: [mkars80] Re: MKARS80 net

> Steve yes it would be useful to know if anyone has access to a
> standard to compare our settings. You sounded ok on 3700.000 KHz but
> I thought I got better copy when I dropped down 25 Hz.
> Am I right in assuming that the integrity of the frequency readout
> would be optimum when the BFO and hence your PIC clock is set to
> exactly 10,000.000KHz ? If so then I assume that if one is after
> precision of readout then that would be the way to go, therefore
> there might have to be a compromise made if one wanted to match the
> BFO to the filter characteristics for best voice reproduction, or can
> your software take care of this somehow ?
>
> 73 de Chatrles G3OTH
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> I was set to 3.7000 MHz but others may like to comment, especially
> if they
>> are using "known" accurate VFOs!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@...>
>> To: <mkars80@...>
>> Sent: Sunday, December 14, 2008 3:01 PM
>> Subject: [mkars80] Re: MKARS80 net
>>
>>
>> > OK FB Steve
>> > Just out of interest did you note your readout frequency
>> > I think I copied you best at 3699.975 on my dial. It would be
> useful
>> > to know how far out I am with my current settings here.

>> > 73 de Charles G3OTH
>> >
>> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Hi Charles, glad to hear it works OK.
>> >>
>> >> With the weaker stations I tried to listen with my Pic-A-Star but
>> > despite
>> >> pressing buttons and twiddling knobs I couldn't resolve them any
>> > clearer!
>> >>
>> >> Hope to hear you on the next net.
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: "g3oth" <g3oth@>
>> >> To: <mkars80@...>
>> >> Sent: Sunday, December 14, 2008 2:50 PM
>> >> Subject: [mkars80] Re: MKARS80 net
>> >>
>> >>
>> >> > Hi Steve
>> >> > Heard you put out a call at exactly 1400 and copied you up
> here in
>> >> > Northumberland most of the time up until 1430 at Q3 to Q5 on my
>> > newly
>> >> > completed but unboxed MKARS80 sitting on my knee attached to a
> 12
>> >> > volt DC Wallwort and a 30 foot downstairs indoor antenna hung
>> > around
>> >> > the picture rail. I could just hear Charlie, Ray and Ted but
> you
>> >> > Steve were much stronger, note no improvement to signals
> detected
>> >> > when copied on my main RX. Hope to get it into a box and try
> out
>> > the
>> >> > TX later on this week.
>> >> > 73 de Charles G3OTH
>> >> >
>> >> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >> >>
>> >> >> Another successful net this afternoon although band conditions
>> > were
>> >> > poor,
>> >> >> down in my log I have:
>> >> >>
>> >> >> Me (Steve) G6ALU - Milton Keynes
>> >> >> Ray G4TZR - Milton Keynes

>> >> >> Charlie M0AIJ - Milton Keynes (short antenna)
>> >> >> Ted G4OZG - Kings Lynn (nice and loud!)
>> >> >> Calvin M1EPM - Milton Keynes
>> >> >> Ken - G0WKN Spalding
>> >> >> Dave - G0BVV Bracklesham Bay
>> >> >>
>> >> >> Thanks to all those who participated this afternoon especially
>> > Ken
>> >> > who I
>> >> >> believe had just completed his transceiver.
>> >> >>
>> >> >> It was suggested we should try a morning slot for the next
> net,
>> >> > perhaps
>> >> >> around 8AM next Sunday?
>> >> >>
>> >> >> Steve G6ALU
>> >> >>
>> >> >>
>> >> >>
>> >> >> ----- Original Message -----
>> >> >> From: "Steve Drury" <g6alu@>
>> >> >> To: <mkars80@...>
>> >> >> Sent: Sunday, December 14, 2008 9:31 AM
>> >> >> Subject: Re: [mkars80] MKARS80 net
>> >> >>
>> >> >>
>> >> >> >I will listen out for you Charlie... lets hope the frequency
> is
>> >> > clear!
>> >> >> >
>> >> >> > Have you had a couple of the capacitors yet?
>> >> >> >
>> >> >> > Steve G6ALU
>> >> >> >
>> >> >> > ----- Original Message -----
>> >> >> > From: "Charles Blake" <m0aij@>
>> >> >> > To: <mkars80@...>
>> >> >> > Sent: Sunday, December 14, 2008 6:37 AM
>> >> >> > Subject: Re: [mkars80] MKARS80 net
>> >> >> >
>> >> >> >
>> >> >> >> Steve, I hope to be on the net. Different aerial, /P
> holiday
>> >> > multiband
>> >> >> >> aerial mounted on my balcony handrail, maybe someone will
> hear
>> >> > me this
>> >> >> >> time.
>> >> >> >>

>> >> >> >> Regards, Charlie
>> >> >> >>
>> >> >> >> ----- Original Message -----
>> >> >> >> From: Steve Drury
>> >> >> >> To: mkars80@...
>> >> >> >> Sent: Thursday, December 11, 2008 10:24 PM
>> >> >> >> Subject: [mkars80] MKARS80 net
>> >> >> >>
>> >> >> >>
>> >> >> >> Shall we try a net this Sunday?
>> >> >> >>
>> >> >> >> We found that 15:00 UTC was a bit late so I intend to
> hold a
>> >> > net on
>> >> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December..
> all
>> >> > welcome!
>> >> >> >>
>> >> >> >> Steve G6ALU
>> >> >> >>
>> >> >> >> [Non-text portions of this message have been removed]
>> >> >> >>
>> >> >> >>
>> >> >> >>
>> >> >> >>
>> >> >> >>
>> >> >> >> [Non-text portions of this message have been removed]
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>> >> >> >> Yahoo! Groups Links
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> ---
>> > ---
>> >> > --------------
>> >> >> >
>> >> >> >
>> >> >> >
>> >> >> > No virus found in this incoming message.
>> >> >> > Checked by AVG - http://www.avg.com
>> >> >> > Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release
>> > Date:
>> >> >> > 12/12/2008
>> >> >> > 6:59 PM

>> >> >> >
>> >> >> >
>> >> >> > ------------------------------------
>> >> >> >
>> >> >> > Yahoo! Groups Links
>> >> >> >
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>> >> >>
>> >> >>
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>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

399. MKARS80

Yahoo group: mkars80
Date: 2008-12-14 15:45:06 UTC
From: pa0rcl
Topic: 375 Message: 399

Yes Charles, I managed to pinch it back today and will take and post
some pictures of my first MKARS80's innards tomorrow.

73

Ron pa0cl

Op 14-dec-2008, om 16:14 heeft g3oth het volgende geschreven:

> Fb Ron,
> Well I think perhaps that you and I are probably about the same
> distance away from Milton Keynes so that is the reason we dont copy
> some of the stations so well.
> I have my MKARS80 wkg ok and am very pleased with the results.
> Did you manage to get your camera back from your daughter yet to take
> some more photos of inside of your rig.
> I have posted some pictures of my progress in the Photo section, I
> probably will just use the supplied aluminium box for the time being
> as I dont think I will need to have a need to improve on the
> Polyvaricon simple method of tuning after all, which is quite a
> surprise for me, as the H&P is working so well.
> 73 de Charles G3OTH
>
>
> -- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
> >
> > Hi all,
> >
> > Just wanted to let you all know that I listened this afternoon on
> 3.700.000 with one of my MKARS80's and indeed heard some distinctly
> Britsh male voices. The signals were weak, in the order of S3 and I
> could'nt distinguish any call. I could, however, copy odd parts of
> QSO's with some difficulty. My QTH is in het east part of the
> Netherlands, near the German border.
> >
> > Good luck and 73
> >
> > Ron pa0rcl
> >
> >
> >
> >
> > ----- Original Message -----
> > From: Steve Drury
> > To: mkars80@...
> > Sent: Sunday, December 14, 2008 3:38 PM

> > Subject: Re: [mkars80] MKARS80 net
> >
> >
> > Another successful net this afternoon although band conditions
> were poor,
> > down in my log I have:
> >
> > Me (Steve) G6ALU - Milton Keynes
> > Ray G4TZR - Milton Keynes
> > Charlie M0AIJ - Milton Keynes (short antenna)
> > Ted G4OZG - Kings Lynn (nice and loud!)
> > Calvin M1EPM - Milton Keynes
> > Ken - G0WKN Spalding
> > Dave - G0BVV Bracklesham Bay
> >
> > Thanks to all those who participated this afternoon especially
> Ken who I
> > believe had just completed his transceiver.
> >
> > It was suggested we should try a morning slot for the next net,
> perhaps
> > around 8AM next Sunday?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Steve Drury" <g6alu@...>
> > To: <mkars80@...>
> > Sent: Sunday, December 14, 2008 9:31 AM
> > Subject: Re: [mkars80] MKARS80 net
> >
> > >I will listen out for you Charlie... lets hope the frequency is
> clear!
> > >
> > > Have you had a couple of the capacitors yet?
> > >
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "Charles Blake" <m0aij@...>
> > > To: <mkars80@...>
> > > Sent: Sunday, December 14, 2008 6:37 AM
> > > Subject: Re: [mkars80] MKARS80 net
> > >
> > >
> > >> Steve, I hope to be on the net. Different aerial, /P holiday
> multiband
> > >> aerial mounted on my balcony handrail, maybe someone will hear
> me this
> > >> time.

> > >>
> > >> Regards, Charlie
> > >>
> > >> ----- Original Message -----
> > >> From: Steve Drury
> > >> To: mkars80@...
> > >> Sent: Thursday, December 11, 2008 10:24 PM
> > >> Subject: [mkars80] MKARS80 net
> > >>
> > >>
> > >> Shall we try a net this Sunday?
> > >>
> > >> We found that 15:00 UTC was a bit late so I intend to hold a
> net on
> > >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all
> welcome!
> > >>
> > >> Steve G6ALU
> > >>
> > >> [Non-text portions of this message have been removed]
> > >>
> > >>
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> > >>
> > >> Yahoo! Groups Links
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> >
> >
> > [Non-text portions of this message have been removed]
> >
>
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>

[Non-text portions of this message have been removed]

400. Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 16:03:30 UTC
From: g3oth
Topic: 375 Message: 400

Steve, I am not quite clear as to what you mean.
I realise that the BFO, CIO and PIC clock are the same.
This being the case I cant see how it is possible to fine tune the
BFO to match the filter and expect the clock frequency to say put and
therefore not effect the readout. Please enlighten me if this can be
got around.
Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Charles,
>
> The PIC clock may not be set to 10.00 MHz as it comes off the CIO
(BFO),
> mine is set a littel below that figure. The PIC code compensates
for this.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Sunday, December 14, 2008 3:32 PM
> Subject: [mkars80] Re: MKARS80 net
>
>
> > Steve yes it would be useful to know if anyone has access to a
> > standard to compare our settings. You sounded ok on 3700.000 KHz
but
> > I thought I got better copy when I dropped down 25 Hz.
> > Am I right in assuming that the integrity of the frequency readout
> > would be optimum when the BFO and hence your PIC clock is set to
> > exactly 10,000.000KHz ? If so then I assume that if one is after
> > precision of readout then that would be the way to go, therefore
> > there might have to be a compromise made if one wanted to match
the
> > BFO to the filter characteristics for best voice reproduction, or
can
> > your software take care of this somehow ?
> >
> > 73 de Chatrles G3OTH
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> I was set to 3.7000 MHz but others may like to comment,

especially
> > if they
> >> are using "known" accurate VFOs!
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "g3oth" <g3oth@>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Sunday, December 14, 2008 3:01 PM
> >> Subject: [mkars80] Re: MKARS80 net
> >>
> >>
> >> > OK FB Steve
> >> > Just out of interest did you note your readout frequency
> >> > I think I copied you best at 3699.975 on my dial. It would be
> > useful
> >> > to know how far out I am with my current settings here.
> >> > 73 de Charles G3OTH
> >> >
> >> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Hi Charles, glad to hear it works OK.
> >> >>
> >> >> With the weaker stations I tried to listen with my Pic-A-Star
but
> >> > despite
> >> >> pressing buttons and twiddling knobs I couldn't resolve them
any
> >> > clearer!
> >> >>
> >> >> Hope to hear you on the next net.
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "g3oth" <g3oth@>
> >> >> To: <mkars80@...>
> >> >> Sent: Sunday, December 14, 2008 2:50 PM
> >> >> Subject: [mkars80] Re: MKARS80 net
> >> >>
> >> >>
> >> >> > Hi Steve
> >> >> > Heard you put out a call at exactly 1400 and copied you up
> > here in
> >> >> > Northumberland most of the time up until 1430 at Q3 to Q5
on my
> >> > newly
> >> >> > completed but unboxed MKARS80 sitting on my knee attached
to a

> > 12
> >> >> > volt DC Wallwort and a 30 foot downstairs indoor antenna
hung
> >> > around
> >> >> > the picture rail. I could just hear Charlie, Ray and Ted but
> > you
> >> >> > Steve were much stronger, note no improvement to signals
> > detected
> >> >> > when copied on my main RX. Hope to get it into a box and
try
> > out
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> >> >> > TX later on this week.
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wrote:
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> >> >> >> Me (Steve) G6ALU - Milton Keynes
> >> >> >> Ray G4TZR - Milton Keynes
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> >> >> >> Dave - G0BVV Bracklesham Bay
> >> >> >>
> >> >> >> Thanks to all those who participated this afternoon
especially
> >> > Ken
> >> >> > who I
> >> >> >> believe had just completed his transceiver.
> >> >> >>
> >> >> >> It was suggested we should try a morning slot for the next
> > net,
> >> >> > perhaps
> >> >> >> around 8AM next Sunday?
> >> >> >>
> >> >> >> Steve G6ALU
> >> >> >>
> >> >> >>
> >> >> >>
> >> >> >> ----- Original Message -----
> >> >> >> From: "Steve Drury" <g6alu@>
> >> >> >> To: <mkars80@...>

> >> >> >> Sent: Sunday, December 14, 2008 9:31 AM
> >> >> >> Subject: Re: [mkars80] MKARS80 net
> >> >> >>
> >> >> >>
> >> >> >> >I will listen out for you Charlie... lets hope the
frequency
> > is
> >> >> > clear!
> >> >> >> >
> >> >> >> > Have you had a couple of the capacitors yet?
> >> >> >> >
> >> >> >> > Steve G6ALU
> >> >> >> >
> >> >> >> > ----- Original Message -----
> >> >> >> > From: "Charles Blake" <m0aij@>
> >> >> >> > To: <mkars80@yahoogroups.co.uk>
> >> >> >> > Sent: Sunday, December 14, 2008 6:37 AM
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> > holiday
> >> >> > multiband
> >> >> >> >> aerial mounted on my balcony handrail, maybe someone
will
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> >> >> >> >> ----- Original Message -----
> >> >> >> >> From: Steve Drury
> >> >> >> >> To: mkars80@yahoogroups.co.uk
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> > hold a
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> >> >> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th
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> > all
> >> >> > welcome!
> >> >> >> >>
> >> >> >> >> Steve G6ALU
> >> >> >> >>

> >> >> >> >> [Non-text portions of this message have been removed]
> >> >> >> >>
> >> >> >> >>
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> >> >> >> >>
> >> >> >> >> [Non-text portions of this message have been removed]
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> >> >> >> >>
> >> >> >> >> Yahoo! Groups Links
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> > ---
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> >> >> > --------------
> >> >> >> >
> >> >> >> >
> >> >> >> >
> >> >> >> > No virus found in this incoming message.
> >> >> >> > Checked by AVG - http://www.avg.com
> >> >> >> > Version: 8.0.176 / Virus Database: 270.9.17/1846 -
Release
> >> > Date:
> >> >> >> > 12/12/2008
> >> >> >> > 6:59 PM
> >> >> >> >
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> >> >> >> > ------------------------------------
> >> >> >> >
> >> >> >> > Yahoo! Groups Links
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> > ---
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> >> >> > ------------
> >> >> >>
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> >> >> >> No virus found in this incoming message.
> >> >> >> Checked by AVG - http://www.avg.com
> >> >> >> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release
> > Date:
> >> >> > 12/12/2008
> >> >> >> 6:59 PM
> >> >> >>
> >> >> >
> >> >> >
> >> >> >
> >> >> > ---
> >> >> >
> >> >> > Yahoo! Groups Links
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> > ---
> >> > ------------
> >> >>
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> >> >> No virus found in this incoming message.
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Date:
> >> > 12/12/2008
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> >> > ---
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> >> No virus found in this incoming message.

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> > 12/12/2008
> >> 6:59 PM
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> > ---
> >
> > Yahoo! Groups Links
> >
> >
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> ---

>
>
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
12/12/2008
> 6:59 PM
>

401. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 16:07:39 UTC
From: Steve Drury
Topic: 375 Message: 401

Sorry to confuse the issue - yes you are correct, if you optimise the BFO
for the filter cut-off the accuracy of the frequency counter will suffer.
The code is set for a frequency lower than 10.00 MHz.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, December 14, 2008 4:03 PM
Subject: [mkars80] Re: MKARS80 net

> Steve, I am not quite clear as to what you mean.
> I realise that the BFO, CIO and PIC clock are the same.
> This being the case I cant see how it is possible to fine tune the
> BFO to match the filter and expect the clock frequency to say put and
> therefore not effect the readout. Please enlighten me if this can be
> got around.
> Charles G3OTH
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Charles,
>>
>> The PIC clock may not be set to 10.00 MHz as it comes off the CIO
> (BFO),
>> mine is set a littel below that figure. The PIC code compensates
> for this.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@...>
>> To: <mkars80@...>
>> Sent: Sunday, December 14, 2008 3:32 PM
>> Subject: [mkars80] Re: MKARS80 net
>>
>>
>> > Steve yes it would be useful to know if anyone has access to a
>> > standard to compare our settings. You sounded ok on 3700.000 KHz
> but
>> > I thought I got better copy when I dropped down 25 Hz.
>> > Am I right in assuming that the integrity of the frequency readout
>> > would be optimum when the BFO and hence your PIC clock is set to
>> > exactly 10,000.000KHz ? If so then I assume that if one is after

>> > precision of readout then that would be the way to go, therefore
>> > there might have to be a compromise made if one wanted to match
> the
>> > BFO to the filter characteristics for best voice reproduction, or
> can
>> > your software take care of this somehow ?
>> >
>> > 73 de Chatrles G3OTH
>> >
>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> I was set to 3.7000 MHz but others may like to comment,
> especially
>> > if they
>> >> are using "known" accurate VFOs!
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: "g3oth" <g3oth@>
>> >> To: <mkars80@...>
>> >> Sent: Sunday, December 14, 2008 3:01 PM
>> >> Subject: [mkars80] Re: MKARS80 net
>> >>
>> >>
>> >> > OK FB Steve
>> >> > Just out of interest did you note your readout frequency
>> >> > I think I copied you best at 3699.975 on my dial. It would be
>> > useful
>> >> > to know how far out I am with my current settings here.
>> >> > 73 de Charles G3OTH
>> >> >
>> >> > -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >> >>
>> >> >> Hi Charles, glad to hear it works OK.
>> >> >>
>> >> >> With the weaker stations I tried to listen with my Pic-A-Star
> but
>> >> > despite
>> >> >> pressing buttons and twiddling knobs I couldn't resolve them
> any
>> >> > clearer!
>> >> >>
>> >> >> Hope to hear you on the next net.
>> >> >>
>> >> >> Steve G6ALU
>> >> >>
>> >> >> ----- Original Message -----
>> >> >> From: "g3oth" <g3oth@>
>> >> >> To: <mkars80@...>

>> >> >> Sent: Sunday, December 14, 2008 2:50 PM
>> >> >> Subject: [mkars80] Re: MKARS80 net
>> >> >>
>> >> >>
>> >> >> > Hi Steve
>> >> >> > Heard you put out a call at exactly 1400 and copied you up
>> > here in
>> >> >> > Northumberland most of the time up until 1430 at Q3 to Q5
> on my
>> >> > newly
>> >> >> > completed but unboxed MKARS80 sitting on my knee attached
> to a
>> > 12
>> >> >> > volt DC Wallwort and a 30 foot downstairs indoor antenna
> hung
>> >> > around
>> >> >> > the picture rail. I could just hear Charlie, Ray and Ted but
>> > you
>> >> >> > Steve were much stronger, note no improvement to signals
>> > detected
>> >> >> > when copied on my main RX. Hope to get it into a box and
> try
>> > out
>> >> > the
>> >> >> > TX later on this week.
>> >> >> > 73 de Charles G3OTH
>> >> >> >
>> >> >> > -- In mkars80@..., "Steve Drury" <g6alu@>
> wrote:
>> >> >> >>
>> >> >> >> Another successful net this afternoon although band
> conditions
>> >> > were
>> >> >> > poor,
>> >> >> >> down in my log I have:
>> >> >> >>
>> >> >> >> Me (Steve) G6ALU - Milton Keynes
>> >> >> >> Ray G4TZR - Milton Keynes
>> >> >> >> Charlie M0AIJ - Milton Keynes (short antenna)
>> >> >> >> Ted G4OZG - Kings Lynn (nice and loud!)
>> >> >> >> Calvin M1EPM - Milton Keynes
>> >> >> >> Ken - G0WKN Spalding
>> >> >> >> Dave - G0BVV Bracklesham Bay
>> >> >> >>
>> >> >> >> Thanks to all those who participated this afternoon
> especially
>> >> > Ken
>> >> >> > who I
>> >> >> >> believe had just completed his transceiver.
>> >> >> >>

>> >> >> >> It was suggested we should try a morning slot for the next
>> > net,
>> >> >> > perhaps
>> >> >> >> around 8AM next Sunday?
>> >> >> >>
>> >> >> >> Steve G6ALU
>> >> >> >>
>> >> >> >>
>> >> >> >>
>> >> >> >> ----- Original Message -----
>> >> >> >> From: "Steve Drury" <g6alu@>
>> >> >> >> To: <mkars80@...>
>> >> >> >> Sent: Sunday, December 14, 2008 9:31 AM
>> >> >> >> Subject: Re: [mkars80] MKARS80 net
>> >> >> >>
>> >> >> >>
>> >> >> >> >I will listen out for you Charlie... lets hope the
> frequency
>> > is
>> >> >> > clear!
>> >> >> >> >
>> >> >> >> > Have you had a couple of the capacitors yet?
>> >> >> >> >
>> >> >> >> > Steve G6ALU
>> >> >> >> >
>> >> >> >> > ----- Original Message -----
>> >> >> >> > From: "Charles Blake" <m0aij@>
>> >> >> >> > To: <mkars80@...>
>> >> >> >> > Sent: Sunday, December 14, 2008 6:37 AM
>> >> >> >> > Subject: Re: [mkars80] MKARS80 net
>> >> >> >> >
>> >> >> >> >
>> >> >> >> >> Steve, I hope to be on the net. Different aerial, /P
>> > holiday
>> >> >> > multiband
>> >> >> >> >> aerial mounted on my balcony handrail, maybe someone
> will
>> > hear
>> >> >> > me this
>> >> >> >> >> time.
>> >> >> >> >>
>> >> >> >> >> Regards, Charlie
>> >> >> >> >>
>> >> >> >> >> ----- Original Message -----
>> >> >> >> >> From: Steve Drury
>> >> >> >> >> To: mkars80@...
>> >> >> >> >> Sent: Thursday, December 11, 2008 10:24 PM
>> >> >> >> >> Subject: [mkars80] MKARS80 net
>> >> >> >> >>
>> >> >> >> >>

>> >> >> >> >> Shall we try a net this Sunday?
>> >> >> >> >>
>> >> >> >> >> We found that 15:00 UTC was a bit late so I intend to
>> > hold a
>> >> >> > net on
>> >> >> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th
> December..
>> > all
>> >> >> > welcome!
>> >> >> >> >>
>> >> >> >> >> Steve G6ALU
>> >> >> >> >>
>> >> >> >> >> [Non-text portions of this message have been removed]
>> >> >> >> >>
>> >> >> >> >>
>> >> >> >> >>
>> >> >> >> >>
>> >> >> >> >>
>> >> >> >> >> [Non-text portions of this message have been removed]
>> >> >> >> >>
>> >> >> >> >>
>> >> >> >> >> ------------------------------------
>> >> >> >> >>
>> >> >> >> >> Yahoo! Groups Links
>> >> >> >> >>
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> ---
>> > ---
>> >> > ---
>> >> >> > --------------
>> >> >> >> >
>> >> >> >> >
>> >> >> >> >
>> >> >> >> > No virus found in this incoming message.
>> >> >> >> > Checked by AVG - http://www.avg.com
>> >> >> >> > Version: 8.0.176 / Virus Database: 270.9.17/1846 -
> Release
>> >> > Date:
>> >> >> >> > 12/12/2008
>> >> >> >> > 6:59 PM
>> >> >> >> >
>> >> >> >> >
>> >> >> >> > ------------------------------------
>> >> >> >> >
>> >> >> >> > Yahoo! Groups Links
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>> >> >> > ------------
>> >> >> >>
>> >> >> >>
>> >> >> >>
>> >> >> >> No virus found in this incoming message.
>> >> >> >> Checked by AVG - http://www.avg.com
>> >> >> >> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release
>> > Date:
>> >> >> > 12/12/2008
>> >> >> >> 6:59 PM
>> >> >> >>
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>> >> >> >
>> >> >> >
>> >> >> > ----------------------------------
>> >> >> >
>> >> >> > Yahoo! Groups Links
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>> >> >>
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>> >> >> Checked by AVG - http://www.avg.com
>> >> >> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release
> Date:
>> >> > 12/12/2008
>> >> >> 6:59 PM
>> >> >>
>> >> >
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>> >> >
>> >> > ----------------------------------
>> >> >
>> >> > Yahoo! Groups Links

>> >> >
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>> > ------------
>> >>
>> >>
>> >>
>> >> No virus found in this incoming message.
>> >> Checked by AVG - http://www.avg.com
>> >> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
>> > 12/12/2008
>> >> 6:59 PM
>> >>
>> >
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>>
>>
>> ---
> ------------
>>
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
> 12/12/2008
>> 6:59 PM
>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

402. Re: MKARS80

Yahoo group: mkars80
Date: 2008-12-14 16:07:04 UTC
From: g3oth
Topic: 375 Message: 402

FB Ron I will look forward to seeing them.
BTW I had no luck finding that Italian case source on the web but
many thanks for giving me the details nevertheless.
73 de Charles G3OTH

--- In mkars80@..., pa0rcl <pa0rcl@...> wrote:
>
> Yes Charles, I managed to pinch it back today and will take and
post
> some pictures of my first MKARS80's innards tomorrow.
>
> 73
>
> Ron pa0cl
>
>
>
> Op 14-dec-2008, om 16:14 heeft g3oth het volgende geschreven:
>
> > Fb Ron,
> > Well I think perhaps that you and I are probably about the same
> > distance away from Milton Keynes so that is the reason we dont
copy
> > some of the stations so well.
> > I have my MKARS80 wkg ok and am very pleased with the results.
> > Did you manage to get your camera back from your daughter yet to
take
> > some more photos of inside of your rig.
> > I have posted some pictures of my progress in the Photo section, I
> > probably will just use the supplied aluminium box for the time
being
> > as I dont think I will need to have a need to improve on the
> > Polyvaricon simple method of tuning after all, which is quite a
> > surprise for me, as the H&P is working so well.
> > 73 de Charles G3OTH
> >
> >
> > -- In mkars80@..., "pa0rcl" <pa0rcl@> wrote:
> > >
> > > Hi all,
> > >
> > > Just wanted to let you all know that I listened this afternoon
on
> > 3.700.000 with one of my MKARS80's and indeed heard some
distinctly

> > Britsh male voices. The signals were weak, in the order of S3 and
I
> > could'nt distinguish any call. I could, however, copy odd parts of
> > QSO's with some difficulty. My QTH is in het east part of the
> > Netherlands, near the German border.
> > >
> > > Good luck and 73
> > >
> > > Ron pa0rcl
> > >
> > >
> > >
> > >
> > > ----- Original Message -----
> > > From: Steve Drury
> > > To: mkars80@...
> > > Sent: Sunday, December 14, 2008 3:38 PM
> > > Subject: Re: [mkars80] MKARS80 net
> > >
> > >
> > > Another successful net this afternoon although band conditions
> > were poor,
> > > down in my log I have:
> > >
> > > Me (Steve) G6ALU - Milton Keynes
> > > Ray G4TZR - Milton Keynes
> > > Charlie M0AIJ - Milton Keynes (short antenna)
> > > Ted G4OZG - Kings Lynn (nice and loud!)
> > > Calvin M1EPM - Milton Keynes
> > > Ken - G0WKN Spalding
> > > Dave - G0BVV Bracklesham Bay
> > >
> > > Thanks to all those who participated this afternoon especially
> > Ken who I
> > > believe had just completed his transceiver.
> > >
> > > It was suggested we should try a morning slot for the next net,
> > perhaps
> > > around 8AM next Sunday?
> > >
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "Steve Drury" <g6alu@>
> > > To: <mkars80@...>
> > > Sent: Sunday, December 14, 2008 9:31 AM
> > > Subject: Re: [mkars80] MKARS80 net
> > >
> > > >I will listen out for you Charlie... lets hope the frequency is
> > clear!

> > > >
> > > > Have you had a couple of the capacitors yet?
> > > >
> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----
> > > > From: "Charles Blake" <m0aij@>
> > > > To: <mkars80@...>
> > > > Sent: Sunday, December 14, 2008 6:37 AM
> > > > Subject: Re: [mkars80] MKARS80 net
> > > >
> > > >
> > > >> Steve, I hope to be on the net. Different aerial, /P holiday
> > multiband
> > > >> aerial mounted on my balcony handrail, maybe someone will
hear
> > me this
> > > >> time.
> > > >>
> > > >> Regards, Charlie
> > > >>
> > > >> ----- Original Message -----
> > > >> From: Steve Drury
> > > >> To: mkars80@...
> > > >> Sent: Thursday, December 11, 2008 10:24 PM
> > > >> Subject: [mkars80] MKARS80 net
> > > >>
> > > >>
> > > >> Shall we try a net this Sunday?
> > > >>
> > > >> We found that 15:00 UTC was a bit late so I intend to hold a
> > net on
> > > >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December..
all
> > welcome!
> > > >>
> > > >> Steve G6ALU
> > > >>
> > > >> [Non-text portions of this message have been removed]
> > > >>
> > > >>
> > > >>
> > > >>
> > > >>
> > > >>
> > > >> [Non-text portions of this message have been removed]
> > > >>
> > > >>
> > > >> ------------------------------------
> > > >>
> > > >> Yahoo! Groups Links

> > > >>
> > > >>
> > > >>
> > > >
> > > >
> > > > --
> > > >
> > > >
> > > >
> > > > No virus found in this incoming message.
> > > > Checked by AVG - http://www.avg.com
> > > > Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release
> > Date:
> > > > 12/12/2008
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> > > >
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> > > >
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> > 12/12/2008
> > > 6:59 PM
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

403. Re: MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 16:32:25 UTC
From: g3oth
Topic: 375 Message: 403

FB Steve, glad we cleared that one up, as I thought one couldnt have ones cake and eat it Hi Hi.
I did notice in the documentation you mentioned 9999.9KHz so I presume your code is based on this frequency for a TRUE readout rather than exactly 10,000.000 KHz
That said it therefore would not seem to be a problem for you to recode to employ just abt any oddball Xtals in the filters, I was thinking abt how it might apply to colour burst types in the context of that Topband idea msg earlier !
Charles g3OTH

-- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Sorry to confuse the issue - yes you are correct, if you optimise the BFO
> for the filter cut-off the accuracy of the frequency counter will suffer.
> The code is set for a frequency lower than 10.00 MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Sunday, December 14, 2008 4:03 PM
> Subject: [mkars80] Re: MKARS80 net
>
>
> > Steve, I am not quite clear as to what you mean.
> > I realise that the BFO, CIO and PIC clock are the same.
> > This being the case I cant see how it is possible to fine tune the
> > BFO to match the filter and expect the clock frequency to say put and
> > therefore not effect the readout. Please enlighten me if this can be
> > got around.
> > Charles G3OTH
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Charles,
> >>
> >> The PIC clock may not be set to 10.00 MHz as it comes off the CIO
> > (BFO),

> >> mine is set a littel below that figure. The PIC code compensates
> > for this.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "g3oth" <g3oth@>
> >> To: <mkars80@...>
> >> Sent: Sunday, December 14, 2008 3:32 PM
> >> Subject: [mkars80] Re: MKARS80 net
> >>
> >>
> >> > Steve yes it would be useful to know if anyone has access to a
> >> > standard to compare our settings. You sounded ok on 3700.000
KHz
> > but
> >> > I thought I got better copy when I dropped down 25 Hz.
> >> > Am I right in assuming that the integrity of the frequency
readout
> >> > would be optimum when the BFO and hence your PIC clock is set
to
> >> > exactly 10,000.000KHz ? If so then I assume that if one is
after
> >> > precision of readout then that would be the way to go,
therefore
> >> > there might have to be a compromise made if one wanted to match
> > the
> >> > BFO to the filter characteristics for best voice reproduction,
or
> > can
> >> > your software take care of this somehow ?
> >> >
> >> > 73 de Chatrles G3OTH
> >> >
> >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> I was set to 3.7000 MHz but others may like to comment,
> > especially
> >> > if they
> >> >> are using "known" accurate VFOs!
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "g3oth" <g3oth@>
> >> >> To: <mkars80@...>
> >> >> Sent: Sunday, December 14, 2008 3:01 PM
> >> >> Subject: [mkars80] Re: MKARS80 net
> >> >>
> >> >>

> >> >> > OK FB Steve
> >> >> > Just out of interest did you note your readout frequency
> >> >> > I think I copied you best at 3699.975 on my dial. It would
be
> >> > useful
> >> >> > to know how far out I am with my current settings here.
> >> >> > 73 de Charles G3OTH
> >> >> >
> >> >> > -- In mkars80@..., "Steve Drury" <g6alu@>
wrote:
> >> >> >>
> >> >> >> Hi Charles, glad to hear it works OK.
> >> >> >>
> >> >> >> With the weaker stations I tried to listen with my Pic-A-
Star
> > but
> >> >> > despite
> >> >> >> pressing buttons and twiddling knobs I couldn't resolve
them
> > any
> >> >> > clearer!
> >> >> >>
> >> >> >> Hope to hear you on the next net.
> >> >> >>
> >> >> >> Steve G6ALU
> >> >> >>
> >> >> >> ----- Original Message -----
> >> >> >> From: "g3oth" <g3oth@>
> >> >> >> To: <mkars80@...>
> >> >> >> Sent: Sunday, December 14, 2008 2:50 PM
> >> >> >> Subject: [mkars80] Re: MKARS80 net
> >> >> >>
> >> >> >>
> >> >> >> > Hi Steve
> >> >> >> > Heard you put out a call at exactly 1400 and copied you
up
> >> > here in
> >> >> >> > Northumberland most of the time up until 1430 at Q3 to Q5
> > on my
> >> >> > newly
> >> >> >> > completed but unboxed MKARS80 sitting on my knee attached
> > to a
> >> > 12
> >> >> >> > volt DC Wallwort and a 30 foot downstairs indoor antenna
> > hung
> >> >> > around
> >> >> >> > the picture rail. I could just hear Charlie, Ray and Ted
but
> >> > you
> >> >> >> > Steve were much stronger, note no improvement to signals

> >> > detected
> >> >> >> > when copied on my main RX. Hope to get it into a box and
> > try
> >> > out
> >> >> > the
> >> >> >> > TX later on this week.
> >> >> >> > 73 de Charles G3OTH
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> >> >> >> > -- In mkars80@..., "Steve Drury" <g6alu@>
> > wrote:
> >> >> >> >>
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> > conditions
> >> >> > were
> >> >> >> > poor,
> >> >> >> >> down in my log I have:
> >> >> >> >>
> >> >> >> >> Me (Steve) G6ALU - Milton Keynes
> >> >> >> >> Ray G4TZR - Milton Keynes
> >> >> >> >> Charlie M0AIJ - Milton Keynes (short antenna)
> >> >> >> >> Ted G4OZG - Kings Lynn (nice and loud!)
> >> >> >> >> Calvin M1EPM - Milton Keynes
> >> >> >> >> Ken - G0WKN Spalding
> >> >> >> >> Dave - G0BVV Bracklesham Bay
> >> >> >> >>
> >> >> >> >> Thanks to all those who participated this afternoon
> > especially
> >> >> > Ken
> >> >> >> > who I
> >> >> >> >> believe had just completed his transceiver.
> >> >> >> >>
> >> >> >> >> It was suggested we should try a morning slot for the
next
> >> > net,
> >> >> >> > perhaps
> >> >> >> >> around 8AM next Sunday?
> >> >> >> >>
> >> >> >> >> Steve G6ALU
> >> >> >> >>
> >> >> >> >>
> >> >> >> >>
> >> >> >> >> ----- Original Message -----
> >> >> >> >> From: "Steve Drury" <g6alu@>
> >> >> >> >> To: <mkars80@yahoogroups.co.uk>
> >> >> >> >> Sent: Sunday, December 14, 2008 9:31 AM
> >> >> >> >> Subject: Re: [mkars80] MKARS80 net
> >> >> >> >>
> >> >> >> >>
> >> >> >> >> >I will listen out for you Charlie... lets hope the
> > frequency

> >> > is
> >> >> >> > clear!
> >> >> >> >> >
> >> >> >> >> > Have you had a couple of the capacitors yet?
> >> >> >> >> >
> >> >> >> >> > Steve G6ALU
> >> >> >> >> >
> >> >> >> >> > ----- Original Message -----
> >> >> >> >> > From: "Charles Blake" <m0aij@>
> >> >> >> >> > To: <mkars80@...>
> >> >> >> >> > Sent: Sunday, December 14, 2008 6:37 AM
> >> >> >> >> > Subject: Re: [mkars80] MKARS80 net
> >> >> >> >> >
> >> >> >> >> >
> >> >> >> >> >> Steve, I hope to be on the net. Different aerial, /P
> >> > holiday
> >> >> >> > multiband
> >> >> >> >> >> aerial mounted on my balcony handrail, maybe someone
> > will
> >> > hear
> >> >> >> > me this
> >> >> >> >> >> time.
> >> >> >> >> >>
> >> >> >> >> >> Regards, Charlie
> >> >> >> >> >>
> >> >> >> >> >> ----- Original Message -----
> >> >> >> >> >> From: Steve Drury
> >> >> >> >> >> To: mkars80@...
> >> >> >> >> >> Sent: Thursday, December 11, 2008 10:24 PM
> >> >> >> >> >> Subject: [mkars80] MKARS80 net
> >> >> >> >> >>
> >> >> >> >> >>
> >> >> >> >> >> Shall we try a net this Sunday?
> >> >> >> >> >>
> >> >> >> >> >> We found that 15:00 UTC was a bit late so I intend
to
> >> > hold a
> >> >> >> > net on
> >> >> >> >> >> 3.7000 MHz at 14:00 UTC this coming Sunday 14th
> > December..
> >> > all
> >> >> >> > welcome!
> >> >> >> >> >>
> >> >> >> >> >> Steve G6ALU
> >> >> >> >> >>
> >> >> >> >> >> [Non-text portions of this message have been
removed]
> >> >> >> >> >>
> >> >> >> >> >>
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> >> >> >> >> >> Yahoo! Groups Links
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> >> >> >> >> >
> >> >> >> >> > ~---

> > ---
> >> > ---
> >> >> > ---
> >> >> >> > --------------
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> >> >> >> >> >
> >> >> >> >> > No virus found in this incoming message.
> >> >> >> >> > Checked by AVG - http://www.avg.com
> >> >> >> >> > Version: 8.0.176 / Virus Database: 270.9.17/1846 -
> > Release
> >> >> > Date:
> >> >> >> >> > 12/12/2008
> >> >> >> >> > 6:59 PM
> >> >> >> >> >
> >> >> >> >> >
> >> >> >> >> > ------------------------------------
> >> >> >> >> >
> >> >> >> >> > Yahoo! Groups Links
> >> >> >> >> >
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> >> >> >> >>
> >> >> >> >> No virus found in this incoming message.
> >> >> >> >> Checked by AVG - http://www.avg.com

> >> >> >> >> Version: 8.0.176 / Virus Database: 270.9.17/1846 -
Release
> >> > Date:
> >> >> >> > 12/12/2008
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> >> >> >> >>
> >> >> >> >
> >> >> >> >
> >> >> >> >
> >> >> >> > ------------------------------------
> >> >> >> >
> >> >> >> > Yahoo! Groups Links
> >> >> >> >
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> > ---
> >> > ---
> >> >> > ------------
> >> >> >>
> >> >> >>
> >> >> >>
> >> >> >> No virus found in this incoming message.
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> >> >> >>
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> >> >> > ------------------------------------
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> >> > ------------
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> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
12/12/2008

> 6:59 PM
>

404. Re: [mkars80] MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 17:05:11 UTC
From: DAVID CLENCH
Topic: 375 Message: 404

Hi All

Conditions for me on the net this time were not too good.

I heard Steve G6ALU & Ray G4TZR. I heard a couple of others but can not confirm call signs.

I have not fitted the capacitor mod yet and my MKARS80 was only switched on at 14:00hrs so drift was a problem.

Will be on at 08:00 next Sunday.

73

Dave G0BVV

--- On Sun, 14/12/08, Steve Drury <g6alu@....uk> wrote:
From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] MKARS80 net
To: mkars80@...
Date: Sunday, 14 December, 2008, 2:38 PM

Another successful net this afternoon although band conditions were poor,

down in my log I have:

Me (Steve) G6ALU - Milton Keynes

Ray G4TZR - Milton Keynes

Charlie M0AIJ - Milton Keynes (short antenna)

Ted G4OZG - Kings Lynn (nice and loud!)

Calvin M1EPM - Milton Keynes

Ken - G0WKN Spalding

Dave - G0BVV Bracklesham Bay

Thanks to all those who participated this afternoon especially Ken who I

believe had just completed his transceiver.

It was suggested we should try a morning slot for the next net, perhaps

around 8AM next Sunday?

Steve G6ALU

----- Original Message -----

From: "Steve Drury" <g6alu@tiscali. co.uk>

To: <mkars80@yahoogroups .co.uk>

Sent: Sunday, December 14, 2008 9:31 AM

Subject: Re: [mkars80] MKARS80 net

>I will listen out for you Charlie... lets hope the frequency is clear!

>

> Have you had a couple of the capacitors yet?

>

> Steve G6ALU

>

> ----- Original Message -----

> From: "Charles Blake" <m0aij@tiscali. co.uk>

> To: <mkars80@yahoogroups .co.uk>

> Sent: Sunday, December 14, 2008 6:37 AM

> Subject: Re: [mkars80] MKARS80 net

>

>

>> Steve, I hope to be on the net. Different aerial, /P holiday multiband

>> aerial mounted on my balcony handrail, maybe someone will hear me this

>> time.

>>

>> Regards, Charlie

>>

>> ----- Original Message -----

>> From: Steve Drury

>> To: mkars80@yahoogroups .co.uk

>> Sent: Thursday, December 11, 2008 10:24 PM

>> Subject: [mkars80] MKARS80 net

>>

>>

>> Shall we try a net this Sunday?

>>

>> We found that 15:00 UTC was a bit late so I intend to hold a net on

>> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!

>>

>> Steve G6ALU

>>

>> [Non-text portions of this message have been removed]

>>

>>

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>>

>> [Non-text portions of this message have been removed]

>>

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>> ------------ --------- --------- ------

>>

>> Yahoo! Groups Links

>>

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>

> No virus found in this incoming message.

> Checked by AVG - http://www.avg. com

> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:

> 12/12/2008

> 6:59 PM

>

>

> ------------ --------- --------- ------

>

> Yahoo! Groups Links

>

>

>

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No virus found in this incoming message.

Checked by AVG - http://www.avg. com

Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008

6:59 PM

[Non-text portions of this message have been removed]

405. RE: [mkars80] MKARS80 net

Yahoo group: mkars80
Date: 2008-12-14 17:06:52 UTC
From: David White
Topic: 375 Message: 405

andy M3ZPX and myself were listening to the net in Hut 1 at BP signals were very poor and noisy, but heard ted OZG, calvin and yourself steve all Q5 on a 10 foot length of wire, everyone else was very poor de G3ZPA

NNNN

To: mkars80@...: g6alu@...: Sun, 14 Dec 2008 14:38:05 +0000Subject: Re: [mkars80] MKARS80 net

Another successful net this afternoon although band conditions were poor, down in my log I have:Me (Steve) G6ALU - Milton KeynesRay G4TZR - Milton KeynesCharlie M0AIJ - Milton Keynes (short antenna)Ted G4OZG - Kings Lynn (nice and loud!)Calvin M1EPM - Milton KeynesKen - G0WKN SpaldingDave - G0BVV Bracklesham BayThanks to all those who participated this afternoon especially Ken who I believe had just completed his transceiver.It was suggested we should try a morning slot for the next net, perhaps around 8AM next Sunday?Steve G6ALU----- Original Message ----- From: "Steve Drury" <g6alu@...>To: <mkars80@...>Sent: Sunday, December 14, 2008 9:31 AMSubject: Re: [mkars80] MKARS80 net>I will listen out for you Charlie... lets hope the frequency is clear!>> Have you had a couple of the capacitors yet?>> Steve G6ALU>> ----- Original Message ----- > From: "Charles Blake" <m0aij@...>> To: <mkars80@...>> Sent: Sunday, December 14, 2008 6:37 AM> Subject: Re: [mkars80] MKARS80 net>>>> Steve, I hope to be on the net. Different aerial, /P holiday multiband>> aerial mounted on my balcony handrail, maybe someone will hear me this>> time.>>>> Regards, Charlie>>>> ----- Original Message ----- >> From: Steve Drury>> To: mkars80@...>> Sent: Thursday, December 11, 2008 10:24 PM>> Subject: [mkars80] MKARS80 net>>>>>> Shall we try a net this Sunday?>>>> We found that 15:00 UTC was a bit late so I intend to hold a net on>> 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!>>>> Steve G6ALU>>>> [Non-text portions of this message have been removed]>>>>>>>>>>>> [Non-text portions of this message have been removed]>>>>>> ----------->>>> Yahoo! Groups Links>>>>>>>>> ----------->>>> No virus found in this incoming message.> Checked by AVG - http://www.avg.com> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: > 12/12/2008> 6:59 PM>>> ----------->> Yahoo! Groups Links>>>----------No virus found in this incoming message.Checked by AVG - http://www.avg.comVersion: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008 6:59 PM

_____
Get Windows Live Messenger on your Mobile
http://clk.atdmt.com/UKM/go/msnnkmgl0010000001ukm/direct/01/

[Non-text portions of this message have been removed]

406. Re: [mkars80] Re: MKARS80

Yahoo group: mkars80
Date: 2008-12-15 09:40:57 UTC
From: pa0rcl
Topic: 375 Message: 406

Hello Charles,

I've added the pictures of my first MKARS80's innards in my album marked "PA0RCL" in the photos section of our group. You can see them after Steve has approved of them.
BTW, this is the version of the MKARS80 (I have three) with which I do my experiments, so some soldering work and wiring was not done as it normally should be.
Of course I'll be happy to answer any question you might have.

73

Ron pa0rcl

> FB Ron I will look forward to seeing them.
> BTW I had no luck finding that Italian case source on the web but
> many thanks for giving me the details nevertheless.
> 73 de Charles G3OTH
>

[Non-text portions of this message have been removed]

407. Re: MKARS80

Yahoo group: mkars80
Date: 2008-12-15 21:41:51 UTC
From: g3oth
Topic: 375 Message: 407

Hello Ron
Thank you for posting the photos of the innards of your special MKARS80, they are very nice indeed and the quality of your construction is excellent.
I particularly like the aesthetics of the design and layout of your front panel, that was the reason I originally asked you about the source of the case, it is such a pity that these no longer seem to be available.

Last night I did some drilling and filing on the standard case that Steve supplies with the kit and I now have my PCB mounted and boxed up, only the IRF510 and LED need to be soldered in permanently now.
I managed to persuade the PCB into the case without elongating and opening up the holes too much and the final result is quite rigid.
I have sent a SAE today to Steve for replacement 1000pF NPO ceramic caps for the Clapp VFO and will substitute these on my PCB when they arrive before I finally batten down the hatches.
I have various old and new knobs here but I have not yet decided which combinations to use to give the panel a balanced appearance.

I will have plenty of questions to ask you later about your experimental version should I decide to make another kit or modify this one.
For instance:
How you back light the Display?
Is this a new or modification of the standard Display supplied by Steve?
Do you notice any extra RF interference being generated by the LCD by using the longer ribbon cables from the PIC and Tuning and RF gain controls?
What components and values do you use for the Varicap Tuning?
How linear is the tuning and what frequency range can you achieve?

I noticed from your latest Photos that you also seem to have added a little "finger dimple button" modification to your Main Tuning knob since your earlier photos, which gives a nice little finishing touch to your build.

Thanks again for your help.
73 de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, pa0rcl <pa0rcl@...> wrote:
>
>
> Hello Charles,
>

> I've added the pictures of my first MKARS80's innards in my album
> marked "PA0RCL" in the photos section of our group. You can see
them
> after Steve has approved of them.
> BTW, this is the version of the MKARS80 (I have three) with which
I
> do my experiments, so some soldering work and wiring was not done
as
> it normally should be.
> Of course I'll be happy to answer any question you might have.
>
> 73
>
> Ron pa0rcl
>
>
> > FB Ron I will look forward to seeing them.
> > BTW I had no luck finding that Italian case source on the web but
> > many thanks for giving me the details nevertheless.
> > 73 de Charles G3OTH
> >
>
>
> [Non-text portions of this message have been removed]
>

408. Re: [mkars80] Re: MKARS80

Yahoo group: mkars80
Date: 2008-12-15 22:11:37 UTC
From: pa0rcl
Topic: 25 Message: 408

Hello Charles,

Thanks for the flowers. I'm not sure if you want or need my answers to your questions at this stage or at a later instance.
I'll be happy to provide the type number of the back lit LCD and the schematic of my simple varactor circuit, but this only makes sense if you decide to use a somewhat larger case to accomodate the 10-turn pot and the new display.

Enjoy the hobby,

73, Ron pa0rcl

----- Original Message -----
From: g3oth
To: mkars80@...
Sent: Monday, December 15, 2008 10:41 PM
Subject: [mkars80] Re: MKARS80

Hello Ron
Thank you for posting the photos of the innards of your special MKARS80, they are very nice indeed and the quality of your construction is excellent.
I particularly like the aesthetics of the design and layout of your front panel, that was the reason I originally asked you about the source of the case, it is such a pity that these no longer seem to be available.

Last night I did some drilling and filing on the standard case that Steve supplies with the kit and I now have my PCB mounted and boxed up, only the IRF510 and LED need to be soldered in permanently now.
I managed to persuade the PCB into the case without elongating and opening up the holes too much and the final result is quite rigid.
I have sent a SAE today to Steve for replacement 1000pF NPO ceramic caps for the Clapp VFO and will substitute these on my PCB when they arrive before I finally batten down the hatches.
I have various old and new knobs here but I have not yet decided which combinations to use to give the panel a balanced appearance.

I will have plenty of questions to ask you later about your experimental version should I decide to make another kit or modify this one.
For instance:
How you back light the Display?
Is this a new or modification of the standard Display supplied by Steve?
Do you notice any extra RF interference being generated by the LCD by using the longer ribbon cables from the PIC and Tuning and RF gain

controls?
What components and values do you use for the Varicap Tuning?
How linear is the tuning and what frequency range can you achieve?

I noticed from your latest Photos that you also seem to have added a
little "finger dimple button" modification to your Main Tuning knob
since your earlier photos, which gives a nice little finishing touch
to your build.

Thanks again for your help.
73 de Charles G3OTH

--- In mkars80@..., pa0rcl <pa0rcl@...> wrote:
>
>
> Hello Charles,
>
> I've added the pictures of my first MKARS80's innards in my album
> marked "PA0RCL" in the photos section of our group. You can see
them
> after Steve has approved of them.
> BTW, this is the version of the MKARS80 (I have three) with which
I
> do my experiments, so some soldering work and wiring was not done
as
> it normally should be.
> Of course I'll be happy to answer any question you might have.
>
> 73
>
> Ron pa0rcl
>
>
> > FB Ron I will look forward to seeing them.
> > BTW I had no luck finding that Italian case source on the web but
> > many thanks for giving me the details nevertheless.
> > 73 de Charles G3OTH
> >
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

409. Re: MKARS80

Yahoo group: mkars80
Date: 2008-12-15 22:57:16 UTC
From: g3oth
Topic: 25 Message: 409

Ok Ron thanks for your reply.
No need for any detailed info at this moment, but it would be appreciated sometime when it is convenient, maybe you could post it in the files section later.
It would appear from what you say that a new LCD is required to get the back light facility,
In the meantime though to satisfy my curiosity perhaps you can comment on my LCD interference and Varicap VFO Linearity / Range questions.
73 de Charles G3OTH

-- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> Hello Charles,
>
> Thanks for the flowers. I'm not sure if you want or need my answers to your questions at this stage or at a later instance.
> I'll be happy to provide the type number of the back lit LCD and the schematic of my simple varactor circuit, but this only makes sense if you decide to use a somewhat
> larger case to accomodate the 10-turn pot and the new display.
>
> Enjoy the hobby,
>
> 73, Ron pa0rcl
>
>
>
>
> ----- Original Message -----
> From: g3oth
> To: mkars80@...
> Sent: Monday, December 15, 2008 10:41 PM
> Subject: [mkars80] Re: MKARS80
>
>
> Hello Ron
> Thank you for posting the photos of the innards of your special
> MKARS80, they are very nice indeed and the quality of your
> construction is excellent.
> I particularly like the aesthetics of the design and layout of your
> front panel, that was the reason I originally asked you about the
> source of the case, it is such a pity that these no longer seem to be

> available.
>
> Last night I did some drilling and filing on the standard case
that
> Steve supplies with the kit and I now have my PCB mounted and
boxed
> up, only the IRF510 and LED need to be soldered in permanently
now.
> I managed to persuade the PCB into the case without elongating
and
> opening up the holes too much and the final result is quite rigid.
> I have sent a SAE today to Steve for replacement 1000pF NPO
ceramic
> caps for the Clapp VFO and will substitute these on my PCB when
they
> arrive before I finally batten down the hatches.
> I have various old and new knobs here but I have not yet decided
> which combinations to use to give the panel a balanced appearance.
>
> I will have plenty of questions to ask you later about your
> experimental version should I decide to make another kit or
modify
> this one.
> For instance:
> How you back light the Display?
> Is this a new or modification of the standard Display supplied by
> Steve?
> Do you notice any extra RF interference being generated by the
LCD by
> using the longer ribbon cables from the PIC and Tuning and RF
gain
> controls?
> What components and values do you use for the Varicap Tuning?
> How linear is the tuning and what frequency range can you achieve?
>
> I noticed from your latest Photos that you also seem to have
added a
> little "finger dimple button" modification to your Main Tuning
knob
> since your earlier photos, which gives a nice little finishing
touch
> to your build.
>
> Thanks again for your help.
> 73 de Charles G3OTH
>
> --- In mkars80@..., pa0rcl <pa0rcl@> wrote:
> >
> >
> > Hello Charles,

> >
> > I've added the pictures of my first MKARS80's innards in my
album
> > marked "PA0RCL" in the photos section of our group. You can see
> them
> > after Steve has approved of them.
> > BTW, this is the version of the MKARS80 (I have three) with
which
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> > do my experiments, so some soldering work and wiring was not
done
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> > it normally should be.
> > Of course I'll be happy to answer any question you might have.
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> >
> > Ron pa0rcl
> >
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> > > FB Ron I will look forward to seeing them.
> > > BTW I had no luck finding that Italian case source on the web
but
> > > many thanks for giving me the details nevertheless.
> > > 73 de Charles G3OTH
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

410. Re: [mkars80] Re: MKARS80

Yahoo group: mkars80
Date: 2008-12-16 09:58:27 UTC
From: pa0rcl
Topic: 25 Message: 410

No problem, Charles, curiosity is one of the corner stones of human civilisation, and hence of radio amateurism.

As for LCD interference; there is none. The LCD is backlit by LEDs not by fluorescent tubes with inverters, that's why.
These backlit LCDs cost in the order of 5 Euro's here. It's not pin compatible with the original MKARS80 display nor does it mount the same way.
Anyhow, I find the back lit display very comfortable to use.

I use the Philips BB112 varicap, just because I had it handy at the time when I wanted to try a somewhat more comfortable tuning method at the time. The BB112's capacity versus applied voltage curve is pretty flat, except at the extremes of the curve. The 10-turn pot is of the linear type (I don't think there are logarithmic types at all), so the linearity of the tuning is pretty good. I never measured this, quite frankly. Good linearity would only be important in the case of a linear scale with a pointer, not with a digital display showing the measured frequency.
The range of the varicap tuning can easiily be adjusted with a small trimmer pot in series with the 10-turn pot and with the aid of the orange coloured trimmer pot on the board. In my case I've adjusted them so that I can tune between 3490 and 3810 kHz. I still use the fine control, since the 10-turn pot is still somewhat too coarse. I've put 100K in series with the fine tuning pot as to reduce its range. The fine control can also be used to readjust the H&P indicator in the centre of its range, should this be necessary.
Perhaps I'll try Jim's idea to split the band up into three switchable 100 kHz ranges that can be individually tuned with the 10-turn pot, thus making the main tuning button three times more accurate. This may make the fine tuning pot superfluous so that there's room on the front panel for a three-position switch. I'm not sure if this would be a step forward, however. So far the fine tuning works fine, so to speak, hi.

Perhaps I'll post the schematic of my varicap circuit in the files section of our group after I've converted it into JPG-format. There is really not much to it, it's only a few components.

73

Ron pa0rcl

Op 15-dec-2008, om 23:57 heeft g3oth het volgende geschreven:

> Ok Ron thanks for your reply.
> No need for any detailed info at this moment, but it would be

> appreciated sometime when it is convenient, maybe you could post it
> in the files section later.
> It would appear from what you say that a new LCD is required to get
> the back light facility,
> In the meantime though to satisfy my curiosity perhaps you can
> comment on my LCD interference and Varicap VFO Linearity / Range
> questions.
> 73 de Charles G3OTH
>
> -- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
> >
> > Hello Charles,
> >
> > Thanks for the flowers. I'm not sure if you want or need my answers
> to your questions at this stage or at a later instance.
> > I'll be happy to provide the type number of the back lit LCD and
> the schematic of my simple varactor circuit, but this only makes
> sense if you decide to use a somewhat
> > larger case to accomodate the 10-turn pot and the new display.
> >
> > Enjoy the hobby,
> >
> > 73, Ron pa0rcl
> >
> >
> >
> >
> > ----- Original Message -----
> > From: g3oth
> > To: mkars80@...
> > Sent: Monday, December 15, 2008 10:41 PM
> > Subject: [mkars80] Re: MKARS80
> >
> >
> > Hello Ron
> > Thank you for posting the photos of the innards of your special
> > MKARS80, they are very nice indeed and the quality of your
> > construction is excellent.
> > I particularly like the aesthetics of the design and layout of
> your
> > front panel, that was the reason I originally asked you about the
> > source of the case, it is such a pity that these no longer seem
> to be
> > available.
> >
> > Last night I did some drilling and filing on the standard case
> that
> > Steve supplies with the kit and I now have my PCB mounted and
> boxed
> > up, only the IRF510 and LED need to be soldered in permanently

> now.
> > I managed to persuade the PCB into the case without elongating
> and
> > opening up the holes too much and the final result is quite rigid.
> > I have sent a SAE today to Steve for replacement 1000pF NPO
> ceramic
> > caps for the Clapp VFO and will substitute these on my PCB when
> they
> > arrive before I finally batten down the hatches.
> > I have various old and new knobs here but I have not yet decided
> > which combinations to use to give the panel a balanced appearance.
> >
> > I will have plenty of questions to ask you later about your
> > experimental version should I decide to make another kit or
> modify
> > this one.
> > For instance:
> > How you back light the Display?
> > Is this a new or modification of the standard Display supplied by
> > Steve?
> > Do you notice any extra RF interference being generated by the
> LCD by
> > using the longer ribbon cables from the PIC and Tuning and RF
> gain
> > controls?
> > What components and values do you use for the Varicap Tuning?
> > How linear is the tuning and what frequency range can you achieve?
> >
> > I noticed from your latest Photos that you also seem to have
> added a
> > little "finger dimple button" modification to your Main Tuning
> knob
> > since your earlier photos, which gives a nice little finishing
> touch
> > to your build.
> >
> > Thanks again for your help.
> > 73 de Charles G3OTH
> >
> > --- In mkars80@..., pa0rcl <pa0rcl@> wrote:
> > >
> > >
> > > Hello Charles,
> > >
> > > I've added the pictures of my first MKARS80's innards in my
> album
> > > marked "PA0RCL" in the photos section of our group. You can see
> > them
> > > after Steve has approved of them.
> > > BTW, this is the version of the MKARS80 (I have three) with

> which
> > I
> > > do my experiments, so some soldering work and wiring was not
> done
> > as
> > > it normally should be.
> > > Of course I'll be happy to answer any question you might have.
> > >
> > > 73
> > >
> > > Ron pa0rcl
> > >
> > >
> > > > FB Ron I will look forward to seeing them.
> > > > BTW I had no luck finding that Italian case source on the web
> but
> > > > many thanks for giving me the details nevertheless.
> > > > 73 de Charles G3OTH
> > > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
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> >
> > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

411. Re: MKARS80

Yahoo group: mkars80
Date: 2008-12-16 16:44:11 UTC
From: g3oth
Topic: 25 Message: 411

Ron thankyou for the info.
Ok abt the substitute LCD and not experiencing any noise, I was concerned in case the ribbon cable carrying the multiplexer switching waveforms might radiate and be picked up by the RX, but I guess the currents are so small that they must not create a problem. I know that with some multiplexed LED displays which use a higher current you have to be careful about where you place them.
Fb abt the varicap. It is good to know that you can achieve the full band range without resort to switching in extra padders.
I haven't done much work on my MKARS80 since my last post, but instead have been listening to DX from USA, VK and ZL on it with just my indoor antenna so am very pleased with it's performance so far.
It is very quiet without an antenna attached and all discernible birdies are very weak and completely disappear into the atmospheric noise when a small antenna is attached.
73 es mni tks agn de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, pa0rcl <pa0rcl@...> wrote:
>
> No problem, Charles, curiosity is one of the corner stones of human
> civilisation, and hence of radio amateurism.
>
> As for LCD interference; there is none. The LCD is backlit by LEDs
> not by fluorescent tubes with inverters, that's why.
> These backlit LCDs cost in the order of 5 Euro's here. It's not pin
> compatible with the original MKARS80 display nor does it mount the
> same way.
> Anyhow, I find the back lit display very comfortable to use.
>
> I use the Philips BB112 varicap, just because I had it handy at the
> time when I wanted to try a somewhat more comfortable tuning method
> at the time. The BB112's capacity versus applied voltage curve is
> pretty flat, except at the extremes of the curve. The 10-turn pot is
> of the linear type (I don't think there are logarithmic types at
> all), so the linearity of the tuning is pretty good. I never measured
> this, quite frankly. Good linearity would only be important in the
> case of a linear scale with a pointer, not with a digital display
> showing the measured frequency.
> The range of the varicap tuning can easiily be adjusted with a

small
> trimmer pot in series with the 10-turn pot and with the aid of the
> orange coloured trimmer pot on the board. In my case I've adjusted
> them so that I can tune between 3490 and 3810 kHz. I still use
the
> fine control, since the 10-turn pot is still somewhat too coarse.
> I've put 100K in series with the fine tuning pot as to reduce its
> range. The fine control can also be used to readjust the H&P
> indicator in the centre of its range, should this be necessary.
> Perhaps I'll try Jim's idea to split the band up into three
> switchable 100 kHz ranges that can be individually tuned with the
10-
> turn pot, thus making the main tuning button three times more
> accurate. This may make the fine tuning pot superfluous so that
> there's room on the front panel for a three-position switch. I'm
not
> sure if this would be a step forward, however. So far the fine
tuning
> works fine, so to speak, hi.
>
> Perhaps I'll post the schematic of my varicap circuit in the files
> section of our group after I've converted it into JPG-format.
There
> is really not much to it, it's only a few components.
>
> 73
>
> Ron pa0rcl
>
>
>
>
> Op 15-dec-2008, om 23:57 heeft g3oth het volgende geschreven:
>
> > Ok Ron thanks for your reply.
> > No need for any detailed info at this moment, but it would be
> > appreciated sometime when it is convenient, maybe you could post
it
> > in the files section later.
> > It would appear from what you say that a new LCD is required to
get
> > the back light facility,
> > In the meantime though to satisfy my curiosity perhaps you can
> > comment on my LCD interference and Varicap VFO Linearity / Range
> > questions.
> > 73 de Charles G3OTH
> >
> > -- In mkars80@..., "pa0rcl" <pa0rcl@> wrote:
> > >
> > > Hello Charles,

> > >
> > > Thanks for the flowers. I'm not sure if you want or need my
answers
> > to your questions at this stage or at a later instance.
> > > I'll be happy to provide the type number of the back lit LCD and
> > the schematic of my simple varactor circuit, but this only makes
> > sense if you decide to use a somewhat
> > > larger case to accomodate the 10-turn pot and the new display.
> > >
> > > Enjoy the hobby,
> > >
> > > 73, Ron pa0rcl
> > >
> > >
> > >
> > >
> > > ----- Original Message -----
> > > From: g3oth
> > > To: mkars80@...
> > > Sent: Monday, December 15, 2008 10:41 PM
> > > Subject: [mkars80] Re: MKARS80
> > >
> > >
> > > Hello Ron
> > > Thank you for posting the photos of the innards of your special
> > > MKARS80, they are very nice indeed and the quality of your
> > > construction is excellent.
> > > I particularly like the aesthetics of the design and layout of
> > your
> > > front panel, that was the reason I originally asked you about
the
> > > source of the case, it is such a pity that these no longer seem
> > to be
> > > available.
> > >
> > > Last night I did some drilling and filing on the standard case
> > that
> > > Steve supplies with the kit and I now have my PCB mounted and
> > boxed
> > > up, only the IRF510 and LED need to be soldered in permanently
> > now.
> > > I managed to persuade the PCB into the case without elongating
> > and
> > > opening up the holes too much and the final result is quite
rigid.
> > > I have sent a SAE today to Steve for replacement 1000pF NPO
> > ceramic
> > > caps for the Clapp VFO and will substitute these on my PCB when
> > they
> > > arrive before I finally batten down the hatches.

> > > I have various old and new knobs here but I have not yet decided
> > > which combinations to use to give the panel a balanced
appearance.
> > >
> > > I will have plenty of questions to ask you later about your
> > > experimental version should I decide to make another kit or
> > modify
> > > this one.
> > > For instance:
> > > How you back light the Display?
> > > Is this a new or modification of the standard Display supplied
by
> > > Steve?
> > > Do you notice any extra RF interference being generated by the
> > LCD by
> > > using the longer ribbon cables from the PIC and Tuning and RF
> > gain
> > > controls?
> > > What components and values do you use for the Varicap Tuning?
> > > How linear is the tuning and what frequency range can you
achieve?
> > >
> > > I noticed from your latest Photos that you also seem to have
> > added a
> > > little "finger dimple button" modification to your Main Tuning
> > knob
> > > since your earlier photos, which gives a nice little finishing
> > touch
> > > to your build.
> > >
> > > Thanks again for your help.
> > > 73 de Charles G3OTH
> > >
> > > --- In mkars80@yahoogroups.co.uk, pa0rcl <pa0rcl@> wrote:
> > > >
> > > >
> > > > Hello Charles,
> > > >
> > > > I've added the pictures of my first MKARS80's innards in my
> > album
> > > > marked "PA0RCL" in the photos section of our group. You can
see
> > > them
> > > > after Steve has approved of them.
> > > > BTW, this is the version of the MKARS80 (I have three) with
> > which
> > > I
> > > > do my experiments, so some soldering work and wiring was not
> > done
> > > as

> > > > it normally should be.
> > > > Of course I'll be happy to answer any question you might have.
> > > >
> > > > 73
> > > >
> > > > Ron pa0rcl
> > > >
> > > >
> > > > > FB Ron I will look forward to seeing them.
> > > > > BTW I had no luck finding that Italian case source on the
web
> > but
> > > > > many thanks for giving me the details nevertheless.
> > > > > 73 de Charles G3OTH
> > > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
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> > > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
>

412. MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-19 18:40:33 UTC
From: Steve Drury
Topic: 412 Message: 412

I intend to hold a NET at 08:00 UTC this Sunday 21st December on 3.700MHz (± QRM), all welcome.

Steve G6ALU

[Non-text portions of this message have been removed]

413. Re: [mkars80] MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 08:05:13 UTC
From: Steve Drury
Topic: 412 Message: 413

Manic on that frequency... try 3.710MHz.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Friday, December 19, 2008 6:40 PM
Subject: [mkars80] MKARS80 NET

I intend to hold a NET at 08:00 UTC this Sunday 21st December on 3.700MHz (?
QRM), all welcome.

Steve G6ALU

[Non-text portions of this message have been removed]

Yahoo! Groups Links

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

414. Re: [mkars80] MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 08:09:27 UTC
From: Steve Drury
Topic: 412 Message: 414

Back on 3.700MHz!

Steve

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Sunday, December 21, 2008 8:05 AM
Subject: Re: [mkars80] MKARS80 NET

> Manic on that frequency... try 3.710MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Friday, December 19, 2008 6:40 PM
> Subject: [mkars80] MKARS80 NET
>
>
> I intend to hold a NET at 08:00 UTC this Sunday 21st December on 3.700MHz
> (?
> QRM), all welcome.
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
> 12/12/2008

> 6:59 PM
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>
> ---
>
> Yahoo! Groups Links
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>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

415. Re: MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 09:30:40 UTC
From: g3oth
Topic: 412 Message: 415

Good Morning Steve
I could just hear you here in Northumberland on indoor antenna with
my MKARS80 this morning.
Signals were not as good as last week, I heard Andy using his G5RV
well but all others apart from G3Z?? using 15 watts and RXing on his
FR400 were down in the noise.
Displayed QRG was 3700.125KHz today, but I have been messing abt with
my BFO since last time.
NPO Caps still in post, but PCB boxed up and IRF510 now soldered in.
Using 13.6 volt PSU I measured TX quiescient with cut off bias = 250
mA, and with correct bias 300 mA and abt 5 watts out into Car
sidelight (naughty naughty) when I tried it out first time last night.
73 de Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Back on 3.700MHz!
>
> Steve
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Sunday, December 21, 2008 8:05 AM
> Subject: Re: [mkars80] MKARS80 NET
>
>
> > Manic on that frequency... try 3.710MHz.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Steve Drury" <g6alu@...>
> > To: <mkars80@yahoogroups.co.uk>
> > Sent: Friday, December 19, 2008 6:40 PM
> > Subject: [mkars80] MKARS80 NET
> >
> >
> > I intend to hold a NET at 08:00 UTC this Sunday 21st December on
3.700MHz
> > (±
> > QRM), all welcome.
> >
> > Steve G6ALU
> >

> > [Non-text portions of this message have been removed]
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> > Internal Virus Database is out of date.
> > Checked by AVG - http://www.avg.com
> > Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
> > 12/12/2008
> > 6:59 PM
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> >
> > Yahoo! Groups Links
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>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
12/12/2008
> 6:59 PM
>

416. mkars80 net

Yahoo group: mkars80
Date: 2008-12-21 09:59:34 UTC
From: DAVID CLENCH
Topic: 416 Message: 416

Hi All

Did not hear any mkars80 stations.Looked up and down but band very busy.

73
Dave G0BVV

Bracklesham Bay.

[Non-text portions of this message have been removed]

417. Re: [mkars80] Re: MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 10:15:54 UTC
From: Steve Drury
Topic: 412 Message: 417

All sounds OK Charles... sorry you didn't get the capacitors but I think
they were only sent Thursday if I remember right.

On the net today were:

Me (Steve) G6ALU - Milton Keynes
Calvin M1EPM - Milton Keynes
Ray - G4TZR - Milton Keynes
Ted G4OZG - Kings Lynn
Dave G3ZPA - Milton Keynes (15-40W commercial radio)
M3ZPX Andy - Leighton Buzzard (10W commercial radio)

Thanks to all and other listeners.

The band was very noisy due to QRM from Europe, it may be better to start
the next net around 9:30 UTC, Europe will be quiet but we should also miss
the start of the other UK nets.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, December 21, 2008 9:30 AM
Subject: [mkars80] Re: MKARS80 NET

Good Morning Steve
I could just hear you here in Northumberland on indoor antenna with
my MKARS80 this morning.
Signals were not as good as last week, I heard Andy using his G5RV
well but all others apart from G3Z?? using 15 watts and RXing on his
FR400 were down in the noise.
Displayed QRG was 3700.125KHz today, but I have been messing abt with
my BFO since last time.
NPO Caps still in post, but PCB boxed up and IRF510 now soldered in.
Using 13.6 volt PSU I measured TX quiescient with cut off bias = 250
mA, and with correct bias 300 mA and abt 5 watts out into Car
sidelight (naughty naughty) when I tried it out first time last night.
73 de Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Back on 3.700MHz!
>
> Steve
>
> ----- Original Message -----

> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Sunday, December 21, 2008 8:05 AM
> Subject: Re: [mkars80] MKARS80 NET
>
>
> > Manic on that frequency... try 3.710MHz.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Steve Drury" <g6alu@...>
> > To: <mkars80@...>
> > Sent: Friday, December 19, 2008 6:40 PM
> > Subject: [mkars80] MKARS80 NET
> >
> >
> > I intend to hold a NET at 08:00 UTC this Sunday 21st December on
3.700MHz
> > (?
> > QRM), all welcome.
> >
> > Steve G6ALU
> >
> > [Non-text portions of this message have been removed]
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links

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Yahoo! Groups Links

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

418. Re: [mkars80] Re: MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 10:51:55 UTC
From: pa0rcl
Topic: 412 Message: 418

Hello Steve,

This morning I rose early to try and log into the MKARS80 net with my MKARS80. I heard no one of you all, indeed because of QRM from the Continent. Will try again next week.

BTW, I'm surprised to read between the lines that the UK is no longer part of Europe. Are those in Brussels, aware of this?

Best wishes,

Ron pa0rcl

> The band was very noisy due to QRM from Europe, it may be better to start
> the next net around 9:30 UTC, Europe will be quiet but we should also miss
> the start of the other UK nets.
>
> Steve G6ALU
>

[Non-text portions of this message have been removed]

419. Re: [mkars80] Re: MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 12:24:48 UTC
From: Steve Drury
Topic: 412 Message: 419

Its strange that we refer to Europe as another place... I have always felt
that we are on another continent!

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Sunday, December 21, 2008 10:51 AM
Subject: Re: [mkars80] Re: MKARS80 NET

> Hello Steve,
>
> This morning I rose early to try and log into the MKARS80 net with my
> MKARS80. I heard no one of you all, indeed because of QRM from the
> Continent. Will try again next week.
>
> BTW, I'm surprised to read between the lines that the UK is no longer
> part of Europe. Are those in Brussels, aware of this?
>
>
> Best wishes,
>
> Ron pa0rcl
>>
>> The band was very noisy due to QRM from Europe, it may be better to
>> start
>> the next net around 9:30 UTC, Europe will be quiet but we should
>> also miss
>> the start of the other UK nets.
>>
>> Steve G6ALU
>>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008
6:59 PM

420. RE: [mkars80] Re: MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 11:02:29 UTC
From: David White
Topic: 412 Message: 420

excellent signals this morning from MKARS80 net. reports are M1EPM 5/9 + 10 G4TZR 5/9 + 30 G6ALU 5/9 M0CEM 5/9 ted (kings Lynn) M0OGZ ??? 5/9 (i forgot his callsign) M3ZPX 5/9 +20. all signals totally unafected by the QRM receiver YAESU FR400 all valve 1972 vintage aerial 100 foot end fed wire at 12 feet high de G3ZPA

NNNN

To: mkars80@...: pa0rcl@...: Sun, 21 Dec 2008 11:51:55 +0100Subject: Re: [mkars80] Re: MKARS80 NET

Hello Steve,This morning I rose early to try and log into the MKARS80 net with my MKARS80. I heard no one of you all, indeed because of QRM from the Continent. Will try again next week.BTW, I'm surprised to read between the lines that the UK is no longer part of Europe. Are those in Brussels, aware of this?Best wishes,Ron pa0rcl>> The band was very noisy due to QRM from Europe, it may be better to > start> the next net around 9:30 UTC, Europe will be quiet but we should > also miss> the start of the other UK nets.>> Steve G6ALU>[Non-text portions of this message have been removed]

Live Search presents Big Snap II - win John Lewis vouchers
http://clk.atdmt.com/UKM/go/117442309/direct/01/

[Non-text portions of this message have been removed]

421. Re: MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 11:11:31 UTC
From: g3oth
Topic: 412 Message: 421

GM Ron
Yes we must be more careful in future how we refer to our friends
across the North Sea (or German Ocean as we called it 200 years ago)
better to call them "Continentals" perhaps, that way we preserve our
identity and dont offend Brussels! What do you think Steve ?
Charles G3OTH

--- In mkars80@..., pa0rcl <pa0rcl@...> wrote:
>
> Hello Steve,
>
> This morning I rose early to try and log into the MKARS80 net with
my
> MKARS80. I heard no one of you all, indeed because of QRM from the
> Continent. Will try again next week.
>
> BTW, I'm surprised to read between the lines that the UK is no
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> part of Europe. Are those in Brussels, aware of this?
>
>
> Best wishes,
>
> Ron pa0rcl
> >
> > The band was very noisy due to QRM from Europe, it may be better
to
> > start
> > the next net around 9:30 UTC, Europe will be quiet but we should
> > also miss
> > the start of the other UK nets.
> >
> > Steve G6ALU
> >
>
>
> [Non-text portions of this message have been removed]
>

422. Re: MKARS80 NET

Yahoo group: mkars80
Date: 2008-12-21 12:46:42 UTC
From: g3oth
Topic: 412 Message: 422

Steve, must be something to do with our "Island" mentality!
73 de Charles G3OTH
Bedlington, Northumberland, England, UK of Great Britain and Northern Ireland, EEC, Earth.....
Formerly Bedlingtonshire in the County Palantine of Durham (until circa 1830}
Kingdom of Northumbria (prior to Norman Conquest 1066)
North of Hadrian's Wall (during Roman Empire).....

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Its strange that we refer to Europe as another place... I have always felt
> that we are on another continent!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Sunday, December 21, 2008 10:51 AM
> Subject: Re: [mkars80] Re: MKARS80 NET
>
>
> > Hello Steve,
> >
> > This morning I rose early to try and log into the MKARS80 net with my
> > MKARS80. I heard no one of you all, indeed because of QRM from the
> > Continent. Will try again next week.
> >
> > BTW, I'm surprised to read between the lines that the UK is no longer
> > part of Europe. Are those in Brussels, aware of this?
> >
> >
> > Best wishes,
> >
> > Ron pa0rcl
> >>
> >> The band was very noisy due to QRM from Europe, it may be better to
> >> start
> >> the next net around 9:30 UTC, Europe will be quiet but we should
> >> also miss

> >> the start of the other UK nets.
> >>
> >> Steve G6ALU
> >>
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
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> >
> > Yahoo! Groups Links
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>
> Internal Virus Database is out of date.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date:
12/12/2008
> 6:59 PM
>

423. Computer headset and boom mic

Yahoo group: mkars80
Date: 2008-12-22 07:53:23 UTC
From: dombaines
Topic: 423 Message: 423

Hi Steve/all,

Spent some of the w/e in the shack and have all but completed my MKARS 80m tcvr (vanilla without any mods) apart from putting into a box.

What are people using for mike and head phones? thinking about using an old (but new and unused) computer headset and mono boom mike. No cheap mics left at pound shop (as per one in use at Leicester rally).

72

Dom
M1KTA

424. Re: [mkars80] Computer headset and boom mic

Yahoo group: mkars80
Date: 2008-12-22 08:28:06 UTC
From: Steve Drury
Topic: 423 Message: 424

Hi Dom,

Its not fussy with regard microphones, just make sure its an electret - all PC ones are to my knowledge.

One warning - be VERY careful with headphones as this transceiver doesn't have AGC, if you stumble across a local station with the gain turned up it could hurt your hearing. I've not tried it but you could put a couple of 2V4 zener diodes back to back across the headphone lead with a 100R resistor in series with the radio this would limit at about 3V P-P about the same as an old walkman.

Steve G6ALU

----- Original Message -----
From: "dombaines" <dombaines@...>
To: <mkars80@...>
Sent: Monday, December 22, 2008 7:53 AM
Subject: [mkars80] Computer headset and boom mic

> Hi Steve/all,
>
> Spent some of the w/e in the shack and have all but completed my MKARS
> 80m tcvr (vanilla without any mods) apart from putting into a box.
>
> What are people using for mike and head phones? thinking about using an
> old (but new and unused) computer headset and mono boom mike. No cheap
> mics left at pound shop (as per one in use at Leicester rally).
>
> 72
>
> Dom
> M1KTA
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.9.17/1846 - Release Date: 12/12/2008

6:59 PM

425. Re: MKARS80 NET - re: Europe

Yahoo group: mkars80
Date: 2008-12-22 15:25:51 UTC
From: Darwin Piatt
Topic: 412 Message: 425

Hello All;
I listened from here in Nebraska but was unable to hear any of you.
I used my Icom 746 to listen as my mkars80 is still in the build
process.
Anyway, I'm not supprised you refer to those folks accross
the 'channel' as "Europe", you still call where I live
the 'Colonies"

Dar Piatt W9HZC (ex G5CNP)
Cheers..

--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> Steve, must be something to do with our "Island" mentality!
> 73 de Charles G3OTH
> Bedlington, Northumberland, England, UK of Great Britain and
Northern
> Ireland, EEC, Earth.......
> Formerly Bedlingtonshire in the County Palantine of Durham (until
> circa 1830}
> Kingdom of Northumbria (prior to Norman Conquest 1066)
> North of Hadrian's Wall (during Roman Empire).....
>

426. MKARS80 in US

Yahoo group: mkars80
Date: 2008-12-22 15:32:00 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 426   Message: 426

Do we know how many MKARS80's are in North America?
Do we need a North American MKARS80 co-ordinator/contact person?

--
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
Nigel A. Gunn. G8IFF W8IFF (have also held KC8NHF, M0NHF, 9H3GN)
1865 El Camino Drive, Xenia, OH 45385-1115, USA 937 825 5032
e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>

427. Poor output

Yahoo group: mkars80
Date: 2008-12-22 23:15:32 UTC
From: Jerry A Bligh
Topic: 427 Message: 427

Hi Steve
I think I may have a minor problem, your advice would be helpfull.
The radio is now complete and as I had some caps I have carried out
the mod and it is now very stable.
The snag is I modded a mic and it transmits fine when the button is
pressed, but as making contact to the UK from my shack can be
difficult I monitored the output on another receiver and its awful it
sounds hollow and echo's. The other significant indication is that
regardless of the level of my voice the modulation LED always remains
the same.
I am beginning to suspect the mic, is there any way of proving the
radio without getting a new mic as we don't have a pound shop here?
May I also take this opportunity of wishing you all the seasonal
greetings and please keep up the good work.
Regards & 73's
Jerry
2U0BGE

428. Re: [mkars80] Poor output

Yahoo group: mkars80
Date: 2008-12-22 23:29:59 UTC
From: Steve Drury
Topic: 427 Message: 428

Jerry,
You don't need a pound shop microphone, any electrect mic should do - a PC head-set for instance.

I wonder if you were simply getting feedback? The LED not extinguishing does sound like a problem though - can you confirm PA bias and mixer balance has been set according to the instructions? Do you get any power indication on an SWR / power meter?

Steve G6ALU

----- Original Message -----
From: "Jerry A Bligh" <2u0bge@...>
To: <mkars80@...>
Sent: Monday, December 22, 2008 11:15 PM
Subject: [mkars80] Poor output

> Hi Steve
> I think I may have a minor problem, your advice would be helpfull.
> The radio is now complete and as I had some caps I have carried out
> the mod and it is now very stable.
> The snag is I modded a mic and it transmits fine when the button is
> pressed, but as making contact to the UK from my shack can be
> difficult I monitored the output on another receiver and its awful it
> sounds hollow and echo's. The other significant indication is that
> regardless of the level of my voice the modulation LED always remains
> the same.
> I am beginning to suspect the mic, is there any way of proving the
> radio without getting a new mic as we don't have a pound shop here?
> May I also take this opportunity of wishing you all the seasonal
> greetings and please keep up the good work.
> Regards & 73's
> Jerry
> 2U0BGE
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

429. CW adapter

Yahoo group: mkars80
Date: 2008-12-22 23:40:11 UTC
From: Steve Drury
Topic: 429 Message: 429

Now with the capacitor mod we have quite reasonable VFO stability, I'm considering designing a CW adapter; CW can be generated by simply injecting an audio tone into the microphone socket, to avoid images and key clicks this tone has to have controlled rise and fall times and also has to be clean (low harmonic content).

Target specifications are as follows:
a.. Stand alone unit which plugs into microphone and speaker sockets of MKARS80, microphone, speaker and key then plug into module.
b.. 12 power feed via DC socket
c.. CW band pass filter on receive as well as TX
d.. Switching from SSB to CW by push switch.
e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.
f.. Side tone set to 700Hz, adjustable over a small range (possibly 600 - 800Hz)
g.. TX output level by potentiometer; easy to set - just adjust so modulation LED goes out.
h.. Built in limiter for headphone use with a dedicated headphone socket
i.. Unit can also be used stand-alone as a practice oscillator - waveform is nicely shaped so sounds good.
j.. Intention that unit is built into an extension speaker.
k.. Target price 15 - 20 GBP.
I'm looking for comments please.

Steve G6ALU

[Non-text portions of this message have been removed]

430. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-22 23:47:27 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 429 Message: 430

Put me down for one please Steve.

I asked earlier but you might have missed it, how many MKARS80s are there in the US?, is there any requirement for someone (me) to handle US
queries and fixes?

Steve Drury wrote:
> Now with the capacitor mod we have quite reasonable VFO stability, I'm considering designing a CW adapter; CW can be generated by simply injecting an audio tone into the microphone socket, to avoid images and key clicks this tone has to have controlled rise and fall times and also has to be clean (low harmonic content).
>

431. Re: CW adapter

Yahoo group: mkars80
Date: 2008-12-22 23:54:36 UTC
From: Jerry A Bligh
Topic: 429 Message: 431

Hi Steve
This sounds brilliant and a lot of those features would also be very useful to SSB users as well
I would give you an order now if it was available.
Regards
Jerry
2U0BGE

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Now with the capacitor mod we have quite reasonable VFO stability, I'm considering designing a CW adapter; CW can be generated by simply injecting an audio tone into the microphone socket, to avoid images and key clicks this tone has to have controlled rise and fall times and also has to be clean (low harmonic content).
>
> Target specifications are as follows:
> a.. Stand alone unit which plugs into microphone and speaker sockets of MKARS80, microphone, speaker and key then plug into module.
> b.. 12 power feed via DC socket
> c.. CW band pass filter on receive as well as TX
> d.. Switching from SSB to CW by push switch.
> e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.
> f.. Side tone set to 700Hz, adjustable over a small range (possibly 600 - 800Hz)
> g.. TX output level by potentiometer; easy to set - just adjust so modulation LED goes out.
> h.. Built in limiter for headphone use with a dedicated headphone socket
> i.. Unit can also be used stand-alone as a practice oscillator - waveform is nicely shaped so sounds good.
> j.. Intention that unit is built into an extension speaker.
> k.. Target price 15 - 20 GBP.
> I'm looking for comments please.
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>

432. Re: Poor output

Yahoo group: mkars80
Date: 2008-12-22 23:59:44 UTC
From: Jerry A Bligh
Topic: 427 Message: 432

Hi Steve
Answers to the questions.
You actually set mine up and I have not adjusted it since and yes I
get on output on a power meter.
I shall double check everything again as soon as I get a minute.
Regards
Jerry
2U0BGE

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Jerry,
> You don't need a pound shop microphone, any electrect mic should do
- a PC
> head-set for instance.
>
> I wonder if you were simply getting feedback? The LED not
extinguishing does
> sound like a problem though - can you confirm PA bias and mixer
balance has
> been set according to the instructions? Do you get any power
indication on
> an SWR / power meter?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Jerry A Bligh" <2u0bge@...>
> To: <mkars80@...>
> Sent: Monday, December 22, 2008 11:15 PM
> Subject: [mkars80] Poor output
>
>
> > Hi Steve
> > I think I may have a minor problem, your advice would be helpfull.
> > The radio is now complete and as I had some caps I have carried out
> > the mod and it is now very stable.
> > The snag is I modded a mic and it transmits fine when the button is
> > pressed, but as making contact to the UK from my shack can be
> > difficult I monitored the output on another receiver and its awful it
> > sounds hollow and echo's. The other significant indication is that
> > regardless of the level of my voice the modulation LED always remains
> > the same.
> > I am beginning to suspect the mic, is there any way of proving the
> > radio without getting a new mic as we don't have a pound shop here?

> > May I also take this opportunity of wishing you all the seasonal
> > greetings and please keep up the good work.
> > Regards & 73's
> > Jerry
> > 2U0BGE
> >
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> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date:
12/22/2008
> 11:23 AM
>

433. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 08:18:16 UTC
From: Steve Drury
Topic: 429 Message: 433

Hi Nigel,

I would need to go through the invoices to be sure but I think there are only about 4 - 6, until recently they have been expensive due to the exchange rate... that has changed now!

Steve

----- Original Message -----
From: "Nigel Gunn G8IFF/W8IFF" <nigel@...>
To: <mkars80@...>
Sent: Monday, December 22, 2008 11:47 PM
Subject: Re: [mkars80] CW adapter

> Put me down for one please Steve.
>
> I asked earlier but you might have missed it, how many MKARS80s are there
> in the US?, is there any requirement for someone (me) to handle US
> queries and fixes?
>
>
>
> Steve Drury wrote:
>> Now with the capacitor mod we have quite reasonable VFO stability, I'm
>> considering designing a CW adapter; CW can be generated by simply
>> injecting an audio tone into the microphone socket, to avoid images and
>> key clicks this tone has to have controlled rise and fall times and also
>> has to be clean (low harmonic content).
>>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008 11:23 AM

434. Re: [mkars80] Re: Poor output

Yahoo group: mkars80
Date: 2008-12-23 08:20:11 UTC
From: Steve Drury
Topic: 427 Message: 434

I forgot Jerry!

Best to try a different microphone - I can't think why it would sound hollow
apart from feedback.

Steve G6ALU

----- Original Message -----
From: "Jerry A Bligh" <2u0bge@...>
To: <mkars80@...>
Sent: Monday, December 22, 2008 11:59 PM
Subject: [mkars80] Re: Poor output

> Hi Steve
> Answers to the questions.
> You actually set mine up and I have not adjusted it since and yes I
> get on output on a power meter.
> I shall double check everything again as soon as I get a minute.
> Regards
> Jerry
> 2U0BGE
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Jerry,
>> You don't need a pound shop microphone, any electrect mic should do
> - a PC
>> head-set for instance.
>>
>> I wonder if you were simply getting feedback? The LED not
> extinguishing does
>> sound like a problem though - can you confirm PA bias and mixer
> balance has
>> been set according to the instructions? Do you get any power
> indication on
>> an SWR / power meter?
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Jerry A Bligh" <2u0bge@...>
>> To: <mkars80@...>
>> Sent: Monday, December 22, 2008 11:15 PM
>> Subject: [mkars80] Poor output
>>
>>

>> > Hi Steve
>> > I think I may have a minor problem, your advice would be helpfull.
>> > The radio is now complete and as I had some caps I have carried out
>> > the mod and it is now very stable.
>> > The snag is I modded a mic and it transmits fine when the button is
>> > pressed, but as making contact to the UK from my shack can be
>> > difficult I monitored the output on another receiver and its awful it
>> > sounds hollow and echo's. The other significant indication is that
>> > regardless of the level of my voice the modulation LED always remains
>> > the same.
>> > I am beginning to suspect the mic, is there any way of proving the
>> > radio without getting a new mic as we don't have a pound shop here?
>> > May I also take this opportunity of wishing you all the seasonal
>> > greetings and please keep up the good work.
>> > Regards & 73's
>> > Jerry
>> > 2U0BGE
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>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date:
> 12/22/2008
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

435. Re: CW adapter

Yahoo group: mkars80
Date: 2008-12-23 08:28:26 UTC
From: John
Topic: 429 Message: 435

That sounds very interesting Steve, please put me down for one.
Have a great Christmas.
73,
John.

436. CW

Yahoo group: mkars80
Date: 2008-12-23 16:12:42 UTC
From: john boast
Topic: 130 Message: 436

Hi Steve

With your cw adaptor could you consider incoporating this stuff?

SAME SIZE BOX AS ALREADY USED

BATTERIES TO GIVE 13+ VOTS MADE FOM AA Ni-MH AND CHARGING PLUG

WALL WART CHARGER (INTERNAL OR EXTERNAL)

LOUDSPEAKER

TWIN T OSCILLATOR NICE CLEAN AND SIMPLE

AUTO KEY (I DON'T LIKE IAMBIC BUT MULTI-MODE KEY OK)

MECHANICAL PADDLE (I USE A PRINTED CIRCUIT BOARD TYPE VERY RUGGED WHEN MADE PROPERLY)

THE MIKE WHICH COULD BE POSITIONED ON THE END OF A CHEAP TELESCOPIC AERIAL

This would give you a two box design with all the ancillaries

STUART BOAST

G3WDL

437. Re: [mkars80] CW

Yahoo group: mkars80
Date: 2008-12-23 16:16:46 UTC
From: Steve Drury
Topic: 130 Message: 437

With the intended PCB you can incorporate all except the auto key, the PCB will be as small as possible (for cost reasons) so there would be plenty of room left for other "stuff" - it will be down to you to provide the charging circuit though.

Steve G6ALU

----- Original Message -----
From: "john boast" <stuartboast@...>
To: <mkars80@...>
Sent: Tuesday, December 23, 2008 4:12 PM
Subject: [mkars80] CW

> Hi Steve
>
> With your cw adaptor could you consider incoporating this stuff?
>
> SAME SIZE BOX AS ALREADY USED
>
> BATTERIES TO GIVE 13+ VOTS MADE FOM AA Ni-MH AND CHARGING PLUG
>
> WALL WART CHARGER (INTERNAL OR EXTERNAL)
>
> LOUDSPEAKER
>
> TWIN T OSCILLATOR NICE CLEAN AND SIMPLE
>
> AUTO KEY (I DON'T LIKE IAMBIC BUT MULTI-MODE KEY OK)
>
> MECHANICAL PADDLE (I USE A PRINTED CIRCUIT BOARD TYPE VERY RUGGED WHEN
> MADE PROPERLY)
>
> THE MIKE WHICH COULD BE POSITIONED ON THE END OF A CHEAP TELESCOPIC AERIAL
>
> This would give you a two box design with all the ancillaries
>
>
> STUART BOAST
>
> G3WDL
>
>
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> ------------------------------------
>

> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

438. Re: [mkars80] CW

Yahoo group: mkars80
Date: 2008-12-23 16:47:24 UTC
From: john boast
Topic: 130 Message: 438

Sounds good - let the critics come in later when you have done all the hard work - maybe some more ideas will come in from other people before you offer the final packge

Stuart Boast
G3WDL

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Tuesday, 23 December, 2008 16:16:46
Subject: Re: [mkars80] CW

With the intended PCB you can incorporate all except the auto key, the PCB will be as small as possible (for cost reasons) so there would be plenty of room left for other "stuff" - it will be down to you to provide the charging circuit though.

Steve G6ALU

----- Original Message -----
From: "john boast" <stuartboast@ yahoo.co. uk>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, December 23, 2008 4:12 PM
Subject: [mkars80] CW

> Hi Steve
>
> With your cw adaptor could you consider incoporating this stuff?
>
> SAME SIZE BOX AS ALREADY USED
>
> BATTERIES TO GIVE 13+ VOTS MADE FOM AA Ni-MH AND CHARGING PLUG
>
> WALL WART CHARGER (INTERNAL OR EXTERNAL)
>
> LOUDSPEAKER
>
> TWIN T OSCILLATOR NICE CLEAN AND SIMPLE
>
> AUTO KEY (I DON'T LIKE IAMBIC BUT MULTI-MODE KEY OK)
>
> MECHANICAL PADDLE (I USE A PRINTED CIRCUIT BOARD TYPE VERY RUGGED WHEN
> MADE PROPERLY)
>
> THE MIKE WHICH COULD BE POSITIONED ON THE END OF A CHEAP TELESCOPIC AERIAL
>

> This would give you a two box design with all the ancillaries
>
>
> STUART BOAST
>
> G3WDL
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No virus found in this incoming message.
Checked by AVG - http://www.avg. com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

[Non-text portions of this message have been removed]

439. RE: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 18:37:58 UTC
From: M N Scarlett
Topic: 429 Message: 439

Hi Steve

I will certainly be interested in one. It seems an excellent idea.

Mike G4CAK

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 22 December 2008 23:40
To: mkars80@...
Subject: [mkars80] CW adapter

Now with the capacitor mod we have quite reasonable VFO stability, I'm
considering designing a CW adapter; CW can be generated by simply injecting
an audio tone into the microphone socket, to avoid images and key clicks
this tone has to have controlled rise and fall times and also has to be
clean (low harmonic content).

Target specifications are as follows:
a.. Stand alone unit which plugs into microphone and speaker sockets of
MKARS80, microphone, speaker and key then plug into module.
b.. 12 power feed via DC socket
c.. CW band pass filter on receive as well as TX
d.. Switching from SSB to CW by push switch.
e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.
f.. Side tone set to 700Hz, adjustable over a small range (possibly 600 -
800Hz)
g.. TX output level by potentiometer; easy to set - just adjust so
modulation LED goes out.
h.. Built in limiter for headphone use with a dedicated headphone socket
i.. Unit can also be used stand-alone as a practice oscillator - waveform is
nicely shaped so sounds good.
j.. Intention that unit is built into an extension speaker.
k.. Target price 15 - 20 GBP.
I'm looking for comments please.

Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

440. RE: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 19:39:33 UTC
From: Joe Blogs
Topic: 429 Message: 440

Whats the matter with a simple switch and a cap to
insert carrier ?

Regards, Joe........

--- On Tue, 23/12/08, M N Scarlett <mikescarl@...> wrote:

From: M N Scarlett <mikescarl@...>
Subject: RE: [mkars80] CW adapter
To: mkars80@yahoogroups.co.uk
Date: Tuesday, 23 December, 2008, 6:37 PM

Hi Steve

I will certainly be interested in one. It seems an excellent idea.

Mike G4CAK

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 22 December 2008 23:40
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] CW adapter

Now with the capacitor mod we have quite reasonable VFO stability, I'm
considering designing a CW adapter; CW can be generated by simply injecting
an audio tone into the microphone socket, to avoid images and key clicks
this tone has to have controlled rise and fall times and also has to be
clean (low harmonic content).

Target specifications are as follows:
a.. Stand alone unit which plugs into microphone and speaker sockets of
MKARS80, microphone, speaker and key then plug into module.
b.. 12 power feed via DC socket
c.. CW band pass filter on receive as well as TX
d.. Switching from SSB to CW by push switch.
e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.
f.. Side tone set to 700Hz, adjustable over a small range (possibly 600 -
800Hz)
g.. TX output level by potentiometer; easy to set - just adjust so
modulation LED goes out.
h.. Built in limiter for headphone use with a dedicated headphone socket
i.. Unit can also be used stand-alone as a practice oscillator - waveform is
nicely shaped so sounds good.
j.. Intention that unit is built into an extension speaker.

k.. Target price 15 - 20 GBP.
I'm looking for comments please.

Steve G6ALU

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

441. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 19:51:32 UTC
From: Steve Drury
Topic: 429 Message: 441

Answer:

Key clicks
The need for offseting the BFO
Modifications to the PCB are necessary
Potential for instability

Otherwise its prefered as there is no chance of the carrier leaking or
harmonics of the audio oscilator causing "phantom" QSOs.

I had considered it before but didn't follow it up, I will take another
look.

Steve G6ALU

----- Original Message -----
From: "Joe Blogs" <flos1570@...>
To: <mkars80@...>
Sent: Tuesday, December 23, 2008 7:39 PM
Subject: RE: [mkars80] CW adapter

Whats the matter with a simple switch and a cap to
insert carrier ?

Regards, Joe........

--- On Tue, 23/12/08, M N Scarlett <mikescarl@...> wrote:

From: M N Scarlett <mikescarl@...>
Subject: RE: [mkars80] CW adapter
To: mkars80@...
Date: Tuesday, 23 December, 2008, 6:37 PM

Hi Steve

I will certainly be interested in one. It seems an excellent idea.

Mike G4CAK

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 22 December 2008 23:40
To: mkars80@...
Subject: [mkars80] CW adapter

Now with the capacitor mod we have quite reasonable VFO stability, I'm
considering designing a CW adapter; CW can be generated by simply injecting

an audio tone into the microphone socket, to avoid images and key clicks
this tone has to have controlled rise and fall times and also has to be
clean (low harmonic content).

Target specifications are as follows:
a.. Stand alone unit which plugs into microphone and speaker sockets of
MKARS80, microphone, speaker and key then plug into module.
b.. 12 power feed via DC socket
c.. CW band pass filter on receive as well as TX
d.. Switching from SSB to CW by push switch.
e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.
f.. Side tone set to 700Hz, adjustable over a small range (possibly 600 -
800Hz)
g.. TX output level by potentiometer; easy to set - just adjust so
modulation LED goes out.
h.. Built in limiter for headphone use with a dedicated headphone socket
i.. Unit can also be used stand-alone as a practice oscillator - waveform is
nicely shaped so sounds good.
j.. Intention that unit is built into an extension speaker.
k.. Target price 15 - 20 GBP.
I'm looking for comments please.

Steve G6ALU

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

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Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

442. Re:CW adapter

Yahoo group: mkars80
Date: 2008-12-23 20:04:56 UTC
From: Liz & Tony Buckland
Topic: 429 Message: 442

Hello Steve,

Looks very good to me, an excellent idea put my name on one please.

Have a great Christmas Steve and everyone else on the list.

73 Tony ZL3HAM

443. Re: CW adapter

Yahoo group: mkars80
Date: 2008-12-23 20:58:24 UTC
From: g3oth
Topic: 429 Message: 443

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Now with the capacitor mod we have quite reasonable VFO stability,

FB Steve, many thanks for NPO caps which arrived today.

> I'm considering designing a CW adapter; CW can be generated by simply injecting an audio tone into the microphone socket, to avoid images and key clicks this tone has to have controlled rise and fall times and also has to be clean (low harmonic content).
>

Sounds good so here is my two penny's worth

> Target specifications are as follows:
> a.. Stand alone unit which plugs into microphone and speaker sockets of MKARS80, microphone, speaker and key then plug into module.

Please consider providing a separate ptt input on the module so allowing the microphone input on the module to be wired to accept a standard 3.5 mm stereo laptop / PC electret mike jack without the need for any modifications.
Similarly consider providing a 3.5 mm stereo socket so that standard laptop /PC stereo headphones (usually each of 32R impedance) can be used without modification to their jack so that:

Each channel could be wired in parallel thus providing a 16 R load to a conventional mono amp.
A stereo amp such as a TDA2822M with LPF and HPF channels could be employed with them as is to provide a "Stereo CW" effect or alternatively used in Mono Bridge Configuration to provide even more Watts.

> b.. 12 power feed via DC socket

Daisy chain to another DC socket to provide power to MKARS80

> c.. CW band pass filter on receive as well as TX

Separate LPF and HPF channels to simulate "Stereo CW" if cascaded could also provide Mono bandpass.

> d.. Switching from SSB to CW by push switch.

The apparent received Zero Beat CW frequency will differ from that shown on the MKARS80 display by an amount lower and equal to the frequency of the transmitted tone, it is perhaps too much to ask to arrange to also switch the PIC program to compensate for this.

However as long as persons are aware of this shift, in practice if the received reply is zero beat this should not be a problem as the received tone should agree with the transmitted tone and could be an advantage when tuned using a BPF and compared with a similar sidetone.

> e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.
> f.. Side tone set to 700Hz, adjustable over a small range (possibly 600 - 800Hz)

Popular frequencies these, just as long as USB suppression is such that any images are well attenuated.

> g.. TX output level by potentiometer; easy to set - just adjust so modulation LED goes out.

Also helpful for SWR and antenna checks.

> h.. Built in limiter for headphone use with a dedicated headphone socket

Good, should help reduce damage to hearing also see earlier notes.

> i.. Unit can also be used stand-alone as a practice oscillator - waveform is nicely shaped so sounds good.

Could encourage more to try and send good CW.

> j.. Intention that unit is built into an extension speaker.

Maybe also providing space for PSU and Batteries

> k.. Target price 15 - 20 GBP.

About right for UK I guess. Should be bargain for Euro and Dollar customers and also please Mr. Brown!

> I'm looking for comments please.

You did ask so hope these are of help.

73 de Charles G3OTH

444. Re: [mkars80] Re: CW adapter

Yahoo group: mkars80
Date: 2008-12-23 21:39:35 UTC
From: Steve Drury
Topic: 429 Message: 444

Thanks for the comments Charles,

In keeping with the philosophy of the original radio design I intend to keep it simple yet functional; there will be a stereo socket for headphones so ordinary PC types will plug straight in but to enable use of existing microphones I will have to keep the stereo socket with microphone on the tip and PTT on the ring. For my other radios I have made a simple adaptor with a PTT switch.

I don't intend to incorporate any stereo effects - just to keep it simple! Showing the frequency offset (and "CW" in place of "SSB") could be done if I made an internal unit, yet another possibility.

Regards,
Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Tuesday, December 23, 2008 8:58 PM
Subject: [mkars80] Re: CW adapter

> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Now with the capacitor mod we have quite reasonable VFO stability,
>
> FB Steve, many thanks for NPO caps which arrived today.
>
>> I'm considering designing a CW adapter; CW can be generated by
> simply injecting an audio tone into the microphone socket, to avoid
> images and key clicks this tone has to have controlled rise and fall
> times and also has to be clean (low harmonic content).
>>
>
> Sounds good so here is my two penny's worth
>
>> Target specifications are as follows:
>> a.. Stand alone unit which plugs into microphone and speaker
> sockets of MKARS80, microphone, speaker and key then plug into module.
>
> Please consider providing a separate ptt input on the module so
> allowing the microphone input on the module to be wired to accept a
> standard 3.5 mm stereo laptop / PC electret mike jack without the
> need for any modifications.
> Similarly consider providing a 3.5 mm stereo socket so that standard
> laptop /PC stereo headphones (usually each of 32R impedance) can be

> used without modification to their jack so that:
>
> Each channel could be wired in parallel thus providing a 16 R load to
> a conventional mono amp.
> A stereo amp such as a TDA2822M with LPF and HPF channels could be
> employed with them as is to provide a "Stereo CW" effect or
> alternatively used in Mono Bridge Configuration to provide even more
> Watts.
>
>> b.. 12 power feed via DC socket
>
> Daisy chain to another DC socket to provide power to MKARS80
>
>> c.. CW band pass filter on receive as well as TX
>
> Separate LPF and HPF channels to simulate "Stereo CW" if cascaded
> could also provide Mono bandpass.
>
>> d.. Switching from SSB to CW by push switch.
>
> The apparent received Zero Beat CW frequency will differ from that
> shown on the MKARS80 display by an amount lower and equal to the
> frequency of the transmitted tone, it is perhaps too much to ask to
> arrange to also switch the PIC program to compensate for this.
> However as long as persons are aware of this shift, in practice if
> the received reply is zero beat this should not be a problem as the
> received tone should agree with the transmitted tone and could be an
> advantage when tuned using a BPF and compared with a similar sidetone.
>
>> e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone
> level.
>> f.. Side tone set to 700Hz, adjustable over a small range
> (possibly 600 - 800Hz)
>
> Popular frequencies these, just as long as USB suppression is such
> that any images are well attenuated.
>
>> g.. TX output level by potentiometer; easy to set - just adjust
> so modulation LED goes out.
>
> Also helpful for SWR and antenna checks.
>
>> h.. Built in limiter for headphone use with a dedicated headphone
> socket
>
> Good, should help reduce damage to hearing also see earlier notes.
>
>> i.. Unit can also be used stand-alone as a practice oscillator -
> waveform is nicely shaped so sounds good.
>

> Could encourage more to try and send good CW.
>
>> j.. Intention that unit is built into an extension speaker.
>
> Maybe also providing space for PSU and Batteries
>
>> k.. Target price 15 - 20 GBP.
>
> About right for UK I guess. Should be bargain for Euro and Dollar
> customers and also please Mr. Brown!
>
>> I'm looking for comments please.
>
> You did ask so hope these are of help.
>
> 73 de Charles G3OTH
>
>
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> Yahoo! Groups Links
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11:23 AM

445. CW adapter

Yahoo group: mkars80
Date: 2008-12-23 21:44:02 UTC
From: Arnie Grubbs
Topic: 429 Message: 445

Hi Steve,The adapter sounds like a good deal, along with the built in limiter.. I assume that the limiter is so the lack of AGC doesn't bugger up someones ears, or the headphones?.. Being able to build it into a dedicated speaker enclosure sounds cool..I would be very interested in the adapter then!P.S. I had 3 of the MKARS-80 kits, but sold one to Darwin at one of our home brewers QRP meetings.. so I only have 2, both of which still need to be built. I have 3 weeks off for Xmas so maybe one will get started! (after I finish the 2nd RX install in my K3!)73 - Arnie KA0NCR - Also in Nebraska-=-
4.1. CW adapter
  Posted by: "Steve Drury" g6alu@tiscali.co.uk hamlab3
  Date: Mon Dec 22, 2008 11:40 pm

Now with the capacitor mod we have quite reasonable VFO stability, I'm considering designing a CW adapter; CW can be generated by simply injecting an audio tone into the microphone socket, to avoid images and key clicks this tone has to have controlled rise and fall times and also has to be clean (low harmonic content).

Target specifications are as follows:
  a.. Stand alone unit which plugs into microphone and speaker sockets of MKARS80, microphone, speaker and key then plug into module.
  b.. 12 power feed via DC socket
  c.. CW band pass filter on receive as well as TX
  d.. Switching from SSB to CW by push switch.
  e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.
  f.. Side tone set to 700Hz, adjustable over a small range (possibly 600 - 800Hz)
  g.. TX output level by potentiometer; easy to set - just adjust so modulation LED goes out.
  h.. Built in limiter for headphone use with a dedicated headphone socket
  i.. Unit can also be used stand-alone as a practice oscillator - waveform is nicely shaped so sounds good.
  j.. Intention that unit is built into an extension speaker.
  k.. Target price 15 - 20 GBP.
I'm looking for comments please.

Steve G6ALU
=-

[Non-text portions of this message have been removed]

446. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 21:52:18 UTC
From: DAVID CLENCH
Topic: 429 Message: 446

Hi Steve

I will buy a cw adaptor when available.

Best wishes for Xmas & the New Year.

73

Dave G0BVV

--- On Tue, 23/12/08, Steve Drury <g6alu@tiscali.co.uk> wrote:
From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] CW adapter
To: mkars80@...
Date: Tuesday, 23 December, 2008, 7:51 PM

Answer:

Key clicks

The need for offseting the BFO

Modifications to the PCB are necessary

Potential for instability

Otherwise its prefered as there is no chance of the carrier leaking or

harmonics of the audio oscilator causing "phantom" QSOs.

I had considered it before but didn't follow it up, I will take another

look.

Steve G6ALU

----- Original Message -----

From: "Joe Blogs" <flos1570@yahoo. co.uk>

To: <mkars80@yahoogroups .co.uk>

Sent: Tuesday, December 23, 2008 7:39 PM

Subject: RE: [mkars80] CW adapter

Whats the matter with a simple switch and a cap to

insert carrier ?

Regards, Joe........

--- On Tue, 23/12/08, M N Scarlett <mikescarl@btinterne t.com> wrote:

From: M N Scarlett <mikescarl@btinterne t.com>

Subject: RE: [mkars80] CW adapter

To: mkars80@yahoogroups .co.uk

Date: Tuesday, 23 December, 2008, 6:37 PM

Hi Steve

I will certainly be interested in one. It seems an excellent idea.

Mike G4CAK

From: mkars80@yahoogroups .co.uk [mailto:mkars80@yahoogroups .co.uk] On Behalf Of Steve Drury

Sent: 22 December 2008 23:40

To: mkars80@yahoogroups .co.uk

Subject: [mkars80] CW adapter

Now with the capacitor mod we have quite reasonable VFO stability, I'm considering designing a CW adapter; CW can be generated by simply injecting an audio tone into the microphone socket, to avoid images and key clicks this tone has to have controlled rise and fall times and also has to be clean (low harmonic content).

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b.. 12 power feed via DC socket

c.. CW band pass filter on receive as well as TX

d.. Switching from SSB to CW by push switch.

e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.

f.. Side tone set to 700Hz, adjustable over a small range (possibly 600 - 800Hz)

g.. TX output level by potentiometer; easy to set - just adjust so

modulation LED goes out.

h.. Built in limiter for headphone use with a dedicated headphone socket

i.. Unit can also be used stand-alone as a practice oscillator - waveform is

nicely shaped so sounds good.

j.. Intention that unit is built into an extension speaker.

k.. Target price 15 - 20 GBP.

I'm looking for comments please.

Steve G6ALU

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447. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 22:07:33 UTC
From: Davenpam
Topic: 429 Message: 447

Steve , this is the one I was looking at building. They already have the pcb layout work done. It doesn't meet all your listed specs though. Maybe a starting point.

David G.

Steve Drury wrote:
> Now with the capacitor mod we have quite reasonable VFO stability, I'm considering designing a CW adapter; CW can be generated by simply injecting an audio tone into the microphone socket, to avoid images and key clicks this tone has to have controlled rise and fall times and also has to be clean (low harmonic content).
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> h.. Built in limiter for headphone use with a dedicated headphone socket
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> j.. Intention that unit is built into an extension speaker.
> k.. Target price 15 - 20 GBP.
> I'm looking for comments please.
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
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> ---
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>
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>

448. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 22:12:20 UTC
From: Steve Drury
Topic: 429 Message: 448

David,

No attachment, did you intend there to be?

The one I'm building is loosely based on a design by PA0NHC. I will have a schematic available for scrutiny later.

Steve G6ALU

----- Original Message -----
From: "Davenpam" <davenpam@...>
To: <mkars80@...>
Sent: Tuesday, December 23, 2008 10:07 PM
Subject: Re: [mkars80] CW adapter

> Steve , this is the one I was looking at building. They already have the
> pcb layout work done. It doesn't meet all your listed specs though.
> Maybe a starting point.
>
> David G.
>
>
> Steve Drury wrote:
>>
>> Now with the capacitor mod we have quite reasonable VFO stability, I'm
>> considering designing a CW adapter; CW can be generated by simply
>> injecting an audio tone into the microphone socket, to avoid images
>> and key clicks this tone has to have controlled rise and fall times
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>> 600 - 800Hz)
>> g.. TX output level by potentiometer; easy to set - just adjust so
>> modulation LED goes out.
>> h.. Built in limiter for headphone use with a dedicated headphone socket
>> i.. Unit can also be used stand-alone as a practice oscillator -
>> waveform is nicely shaped so sounds good.
>> j.. Intention that unit is built into an extension speaker.
>> k.. Target price 15 - 20 GBP.

>> I'm looking for comments please.
>>
>> Steve G6ALU
>>
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449. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 22:14:53 UTC
From: Davenpam
Topic: 429 Message: 449

Oops drop it some how

http://www.solorb.com/elect/sidetone/index.html

David G.

Steve Drury wrote:
>
> David,
>
> No attachment, did you intend there to be?
>
> The one I'm building is loosely based on a design by PA0NHC. I will
> have a
> schematic available for scrutiny later.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Davenpam" <davenpam@... <mailto:davenpam%40megalink.net>>
> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> Sent: Tuesday, December 23, 2008 10:07 PM
> Subject: Re: [mkars80] CW adapter
>
> > Steve , this is the one I was looking at building. They already have the
> > pcb layout work done. It doesn't meet all your listed specs though.
> > Maybe a starting point.
> >
> > David G.
> >
> >
> > Steve Drury wrote:
> >>
> >> Now with the capacitor mod we have quite reasonable VFO stability, I'm
> >> considering designing a CW adapter; CW can be generated by simply
> >> injecting an audio tone into the microphone socket, to avoid images
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> >> and also has to be clean (low harmonic content).
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> >> Target specifications are as follows:
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> >> of MKARS80, microphone, speaker and key then plug into module.
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> >> c.. CW band pass filter on receive as well as TX
> >> d.. Switching from SSB to CW by push switch.
> >> e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone

> level.
> >> f.. Side tone set to 700Hz, adjustable over a small range (possibly
> >> 600 - 800Hz)
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> >> h.. Built in limiter for headphone use with a dedicated headphone
> socket
> >> i.. Unit can also be used stand-alone as a practice oscillator -
> >> waveform is nicely shaped so sounds good.
> >> j.. Intention that unit is built into an extension speaker.
> >> k.. Target price 15 - 20 GBP.
> >> I'm looking for comments please.
> >>
> >> Steve G6ALU
> >>
> >> [Non-text portions of this message have been removed]
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> >> No virus found in this incoming message.
> >> Checked by AVG - http://www.avg.com <http://www.avg.com>
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> > No virus found in this incoming message.
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450. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 22:28:03 UTC
From: pa0rcl
Topic: 429 Message: 450

>
>
>

Hello Steve (and all),

I'll buy two CW adapters once they're available.

BTW, I 've built a simple two-transistor AGC for the original MKARS80, just to protect my ears when I'm using my headset with boom mike.
Unlike other designs I've seen in this country, my circuit reduces the gain of the first RF stage, thus preventing RF overload and the resulting AF distortion. There is no need to modify the orriginal board, it's a simple addition. I can mail you the schemtic if you're interested.

Wish you and all members Merry Xmas and Happy 2009, may MKARS80 rule the waves!

73

Ron pa0rcl

>
> Steve Drury wrote:
> >
> > Now with the capacitor mod we have quite reasonable VFO
> stability, I'm
> > considering designing a CW adapter; CW can be generated by simply
> > injecting an audio tone into the microphone socket, to avoid images
> > and key clicks this tone has to have controlled rise and fall times
> > and also has to be clean (low harmonic content).
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> > 600 - 800Hz)
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> > h.. Built in limiter for headphone use with a dedicated headphone

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> > i.. Unit can also be used stand-alone as a practice oscillator -
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> > k.. Target price 15 - 20 GBP.
> > I'm looking for comments please.
> >
> > Steve G6ALU
> >
> > [Non-text portions of this message have been removed]
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> > --
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> 12/22/2008 11:23 AM
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[Non-text portions of this message have been removed]

451. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 22:28:14 UTC
From: Tony Olewicz
Topic: 429 Message: 451

Iambic keying circuit option - not everyone has a great fist.
For example...
http://homepage.eircom.net/%7Eei9gq/iambic.html

--- On Tue, 23/12/08, Steve Drury <g6alu@...> wrote:
From: Steve Drury <g6alu@tiscali.co.uk>
Subject: Re: [mkars80] CW adapter
To: mkars80@...
Date: Tuesday, 23 December, 2008, 10:12 PM

David,

No attachment, did you intend there to be?

The one I'm building is loosely based on a design by PA0NHC. I will have a

schematic available for scrutiny later.

Steve G6ALU

----- Original Message -----

From: "Davenpam" <davenpam@megalink. net>

To: <mkars80@yahoogroups .co.uk>

Sent: Tuesday, December 23, 2008 10:07 PM

Subject: Re: [mkars80] CW adapter

> Steve , this is the one I was looking at building. They already have the

> pcb layout work done. It doesn't meet all your listed specs though.

> Maybe a starting point.

>

> David G.

>

>

> Steve Drury wrote:

>>

>> Now with the capacitor mod we have quite reasonable VFO stability, I'm

>> considering designing a CW adapter; CW can be generated by simply

>> injecting an audio tone into the microphone socket, to avoid images

>> and key clicks this tone has to have controlled rise and fall times

>> and also has to be clean (low harmonic content).

>>

>> Target specifications are as follows:

>> a.. Stand alone unit which plugs into microphone and speaker sockets

>> of MKARS80, microphone, speaker and key then plug into module.

>> b.. 12 power feed via DC socket

>> c.. CW band pass filter on receive as well as TX

>> d.. Switching from SSB to CW by push switch.

>> e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.

>> f.. Side tone set to 700Hz, adjustable over a small range (possibly

>> 600 - 800Hz)

>> g.. TX output level by potentiometer; easy to set - just adjust so

>> modulation LED goes out.

>> h.. Built in limiter for headphone use with a dedicated headphone socket

>> i.. Unit can also be used stand-alone as a practice oscillator -

>> waveform is nicely shaped so sounds good.

>> j.. Intention that unit is built into an extension speaker.

>> k.. Target price 15 - 20 GBP.

>> I'm looking for comments please.

>>

>> Steve G6ALU

>>

>> [Non-text portions of this message have been removed]

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>> No virus found in this incoming message.

>> Checked by AVG - http://www.avg. com

>> Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date:

>> 12/22/2008 11:23 AM

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> Yahoo! Groups Links

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No virus found in this incoming message.

Checked by AVG - http://www.avg. com

Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008

11:23 AM

[Non-text portions of this message have been removed]

452. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 22:30:39 UTC
From: Steve Drury
Topic: 429 Message: 452

You can put it in the files section if you like Ron, many will be interested including me!

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Tuesday, December 23, 2008 10:28 PM
Subject: Re: [mkars80] CW adapter

> >
>>
>>
>
> Hello Steve (and all),
>
> I'll buy two CW adapters once they're available.
>
> BTW, I 've built a simple two-transistor AGC for the original
> MKARS80, just to protect my ears when I'm using my headset with boom
> mike.
> Unlike other designs I've seen in this country, my circuit reduces
> the gain of the first RF stage, thus preventing RF overload and the
> resulting AF distortion. There is no need to modify the orriginal
> board, it's a simple addition. I can mail you the schemtic if you're
> interested.
>
> Wish you and all members Merry Xmas and Happy 2009, may MKARS80 rule
> the waves!
>
> 73
>
> Ron pa0rcl
>
>>
>> Steve Drury wrote:
>> >
>> > Now with the capacitor mod we have quite reasonable VFO
>> stability, I'm
>> > considering designing a CW adapter; CW can be generated by simply
>> > injecting an audio tone into the microphone socket, to avoid images
>> > and key clicks this tone has to have controlled rise and fall times
>> > and also has to be clean (low harmonic content).
>> >
>> > Target specifications are as follows:

>> > a.. Stand alone unit which plugs into microphone and speaker sockets
>> > of MKARS80, microphone, speaker and key then plug into module.
>> > b.. 12 power feed via DC socket
>> > c.. CW band pass filter on receive as well as TX
>> > d.. Switching from SSB to CW by push switch.
>> > e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone
>> level.
>> > f.. Side tone set to 700Hz, adjustable over a small range (possibly
>> > 600 - 800Hz)
>> > g.. TX output level by potentiometer; easy to set - just adjust so
>> > modulation LED goes out.
>> > h.. Built in limiter for headphone use with a dedicated headphone
>> socket
>> > i.. Unit can also be used stand-alone as a practice oscillator -
>> > waveform is nicely shaped so sounds good.
>> > j.. Intention that unit is built into an extension speaker.
>> > k.. Target price 15 - 20 GBP.
>> > I'm looking for comments please.
>> >
>> > Steve G6ALU
>> >
>> > [Non-text portions of this message have been removed]
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>> > No virus found in this incoming message.
>> > Checked by AVG - http://www.avg.com
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

453. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 22:32:13 UTC
From: Steve Drury
Topic: 429 Message: 453

Thanks Tony, Ray found this one for me - I was going to include a keyer but as I don't even know Morse I think I for one should learn to walk before I run!

Steve G6ALU

----- Original Message -----
From: "Tony Olewicz" <hamfm1000@...>
To: <mkars80@...>
Sent: Tuesday, December 23, 2008 10:28 PM
Subject: Re: [mkars80] CW adapter

> Iambic keying circuit option - not everyone has a great fist.
> For example...
> http://homepage.eircom.net/%7Eei9gq/iambic.html
>
>
>
> --- On Tue, 23/12/08, Steve Drury <g6alu@...> wrote:
> From: Steve Drury <g6alu@...>
> Subject: Re: [mkars80] CW adapter
> To: mkars80@...
> Date: Tuesday, 23 December, 2008, 10:12 PM
>
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>
> David,
>
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>
> No attachment, did you intend there to be?
>
>
>
> The one I'm building is loosely based on a design by PA0NHC. I will have a
>
> schematic available for scrutiny later.
>

>
>
> Steve G6ALU
>
>
>
> ----- Original Message -----
>
> From: "Davenpam" <davenpam@megalink. net>
>
> To: <mkars80@yahoogroups .co.uk>
>
> Sent: Tuesday, December 23, 2008 10:07 PM
>
> Subject: Re: [mkars80] CW adapter
>
>
>
>> Steve , this is the one I was looking at building. They already have the
>
>> pcb layout work done. It doesn't meet all your listed specs though.
>
>> Maybe a starting point.
>
>>
>
>> David G.
>
>>
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>>
>
>> Steve Drury wrote:
>
>>>
>
>>> Now with the capacitor mod we have quite reasonable VFO stability, I'm
>
>>> considering designing a CW adapter; CW can be generated by simply
>
>>> injecting an audio tone into the microphone socket, to avoid images
>
>>> and key clicks this tone has to have controlled rise and fall times
>
>>> and also has to be clean (low harmonic content).
>
>>>
>
>>> Target specifications are as follows:
>

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>
>>> of MKARS80, microphone, speaker and key then plug into module.
>
>>> b.. 12 power feed via DC socket
>
>>> c.. CW band pass filter on receive as well as TX
>
>>> d.. Switching from SSB to CW by push switch.
>
>>> e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone level.
>
>>> f.. Side tone set to 700Hz, adjustable over a small range (possibly
>
>>> 600 - 800Hz)
>
>>> g.. TX output level by potentiometer; easy to set - just adjust so
>
>>> modulation LED goes out.
>
>>> h.. Built in limiter for headphone use with a dedicated headphone socket
>
>>> i.. Unit can also be used stand-alone as a practice oscillator -
>
>>> waveform is nicely shaped so sounds good.
>
>>> j.. Intention that unit is built into an extension speaker.
>
>>> k.. Target price 15 - 20 GBP.
>
>>> I'm looking for comments please.
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>>> Steve G6ALU
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>>> [Non-text portions of this message have been removed]
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

454. Re: [mkars80] CW adapter

Yahoo group: mkars80
Date: 2008-12-23 22:32:21 UTC
From: Steve Drury
Topic: 429 Message: 454

And thats the other one I found.... here is the basis for the current
circuit
http://home.casema.nl/nvrecording/Projects/CWtoneOscillator/cw_sine_tone_oscillator.htm

Steve G6ALU

----- Original Message -----
From: "Davenpam" <davenpam@...>
To: <mkars80@...>
Sent: Tuesday, December 23, 2008 10:14 PM
Subject: Re: [mkars80] CW adapter

> Oops drop it some how
>
> http://www.solorb.com/elect/sidetone/index.html
>
> David G.
>
> Steve Drury wrote:
>>
>> David,
>>
>> No attachment, did you intend there to be?
>>
>> The one I'm building is loosely based on a design by PA0NHC. I will
>> have a
>> schematic available for scrutiny later.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Davenpam" <davenpam@... <mailto:davenpam%40megalink.net>>
>> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
>> Sent: Tuesday, December 23, 2008 10:07 PM
>> Subject: Re: [mkars80] CW adapter
>>
>> > Steve , this is the one I was looking at building. They already have
>> > the
>> > pcb layout work done. It doesn't meet all your listed specs though.
>> > Maybe a starting point.
>> >
>> > David G.
>> >
>> >
>> > Steve Drury wrote:
>> >>

>> >> Now with the capacitor mod we have quite reasonable VFO stability, I'm
>> >> considering designing a CW adapter; CW can be generated by simply
>> >> injecting an audio tone into the microphone socket, to avoid images
>> >> and key clicks this tone has to have controlled rise and fall times
>> >> and also has to be clean (low harmonic content).
>> >>
>> >> Target specifications are as follows:
>> >> a.. Stand alone unit which plugs into microphone and speaker sockets
>> >> of MKARS80, microphone, speaker and key then plug into module.
>> >> b.. 12 power feed via DC socket
>> >> c.. CW band pass filter on receive as well as TX
>> >> d.. Switching from SSB to CW by push switch.
>> >> e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone
>> level.
>> >> f.. Side tone set to 700Hz, adjustable over a small range (possibly
>> >> 600 - 800Hz)
>> >> g.. TX output level by potentiometer; easy to set - just adjust so
>> >> modulation LED goes out.
>> >> h.. Built in limiter for headphone use with a dedicated headphone
>> socket
>> >> i.. Unit can also be used stand-alone as a practice oscillator -
>> >> waveform is nicely shaped so sounds good.
>> >> j.. Intention that unit is built into an extension speaker.
>> >> k.. Target price 15 - 20 GBP.
>> >> I'm looking for comments please.
>> >>
>> >> Steve G6ALU
>> >>
>> >> [Non-text portions of this message have been removed]
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>> >> No virus found in this incoming message.
>> >> Checked by AVG - http://www.avg.com <http://www.avg.com>
>> >> Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date:
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>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com <http://www.avg.com>
>> Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date:
>> 12/22/2008
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>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.176 / Virus Database: 270.10.0/1862 - Release Date:
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

455. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2008-12-23 23:29:34 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 455

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /mSCAN0005.jpg
Uploaded by : nigelgunn99 <nigel@...>
Description : Audio notch/peak filter

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/mSCAN0005.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

nigelgunn99 <nigel@...>

456. Audio filter

Yahoo group: mkars80
Date: 2008-12-23 23:34:41 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 429   Message: 456

Steve.

I've uploaded the cct of the tunable audio notch/peak filter that I've installed in my rig.
I lifted the -ve end of C39 and inserted filter there.
It could go outboard if you include an audio amp after it.

--
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
Nigel A. Gunn. G8IFF W8IFF (have also held KC8NHF, M0NHF, 9H3GN)
1865 El Camino Drive, Xenia, OH 45385-1115, USA 937 825 5032
e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC
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457. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2008-12-23 23:37:17 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 457

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /CW Adapter/CW Adapter.JPG
Uploaded by : hamlab3 <g6alu@...>
Description : Schematic of proposed CW adapter

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/CW%20Adapter.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

hamlab3 <g6alu@...>

458. Re: [mkars80] Audio filter

Yahoo group: mkars80
Date: 2008-12-23 23:38:54 UTC
From: Steve Drury
Topic: 429   Message: 458

Likewise I have uploaded schematic of proposed CW adapter... need to sleep
on it before I make anything!

Steve G6ALU

----- Original Message -----
From: "Nigel Gunn G8IFF/W8IFF" <nigel@...>
To: <mkars80@...>
Sent: Tuesday, December 23, 2008 11:34 PM
Subject: [mkars80] Audio filter

> Steve.
>
> I've uploaded the cct of the tunable audio notch/peak filter that I've
> installed in my rig.
> I lifted the -ve end of C39 and inserted filter there.
> It could go outboard if you include an audio amp after it.
>
>
> --
> <><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
> Nigel A. Gunn. G8IFF W8IFF (have also held KC8NHF, M0NHF, 9H3GN)
> 1865 El Camino Drive, Xenia, OH 45385-1115, USA 937 825 5032
> e-mail nigel@... www http://www.ngunn.net
> Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
> Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date: 12/22/2008
11:23 AM

459. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2008-12-24 08:34:48 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 459

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /AGC-MKARS80.JPG
Uploaded by : pa0rcl <pa0rcl@...>
Description : Simple AGC for MKARS80

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/AGC-MKARS80.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

pa0rcl <pa0rcl@...>

460. I am hoping to be on air with my MKRS80 from South London over the Christmas break.

Yahoo group: mkars80
Date: 2008-12-24 11:33:17 UTC
From: Martin Butler
Topic: 460 Message: 460

Hi Guys

I am hoping to be on air with my MKRS80 from South London over the Christmas break.

Colin and I would like to wish Steve and you all a Very Merry Christmas and a Happy New Year from www.icqpodcast.com .

73?s Martin and Colin

Martin Butler
Mobile: +44 7973 552878
Amateur Radio Call Sign: M1MRB
QTH: Carshalton, Surrey. UK (IO91VJ)
RSGB instructor for Foundation, Intermediate and Advance courses
Lead Instructor for Sutton and Cheam Amateur Radio Society
Technical Editor of ICQ Podcast http://www.icqpodcast.com
Member of GQRP, membership number: 11451 http://www.gqrp.com

[Non-text portions of this message have been removed]

461. MKARS80 VFO Drift Modification Feedback

Yahoo group: mkars80
Date: 2008-12-24 22:31:27 UTC
From: g3oth
Topic: 461 Message: 461

I received a pair of 1000pF NPO Ceramic Capacitors from Steve yesterday as replacements for the Mylar types previously used for C59 & C60 in earlier kit versions. They came with full instructions and recommendations for removal of the old and fitting of the new capacitors.
It took me about half an hour tonight from start to finish to fit them and I can confirm that thermal stabilty at least on receive appears excellent.
In the first half hour from switch-on I only needed to adjust the fine tune control 3 times by only a few degrees clockwise each time, to compensate for an interval of left hand cursor drift and so keep the cursor centred. Three hours have now elapsed and the VFO has stabilised and the display is rock steady and the cursor is still in its central position.
I have done these tests with 12 volts from a wallwort applied to the PCB. It is in it's aluminium case on an open table in the living room where the temperature is fairly steady at 21 C and I have handled it several times during this period and not shielded it from draughts or lagged it in any way.
In the short time I have been using my MKARS80, although good, I don't think I ever acheived this level of stability using the Mylars, so would recommend this substitution to all concerned.
Merry Christmas
Charles G3OTH

462. VFO mod

Yahoo group: mkars80
Date: 2008-12-25 10:11:01 UTC
From: Tony Buckland
Topic: 462 Message: 462

Hello Steve,

I changed the two caps in the VFO (which I got from you) switched it on and did a quick (1min) re-tune of C38 and left it switched on and zero drift over a two hour period on receive. It remained on all afternoon and still no drift, I then had long QSO's this evening, some overs five to ten minutes long, and still it remained within the Huff & Puff envelope so needless to say I'm delighted with the improvement to stability. Many thanks. Two more sets to modify and hopefully with the same results.

I now look forward to the CW add-on and will maybe also think about the AGC mod.

73 Tony ZL3HAM

463. Re: [mkars80] VFO mod

Yahoo group: mkars80
Date: 2008-12-25 10:33:16 UTC
From: pa0rcl
Topic: 462 Message: 463

Hello Steve,

The NP0 ceramic capacitors as a replacement for the Mylar types
appear to do a good job indeed. I still use polystyrene for two of
my MKARS80's but would like to try the caps you have now available
for all three I bought. Could you send me six of these caps after Xmas?

Thanks and 73

Ron pa0rcl
> Messages in this topic (1)Reply (via web post) | Start a new topic
> Messages | Files | Photos | Links
>
> Change settings via the Web (Yahoo! ID required)
> Change settings via email: Switch delivery to Daily Digest | Switch
> format to Traditional
> Visit Your Group | Yahoo! Groups Terms of Use | Unsubscribe
> RECENT ACTIVITY
> 3
> New Files
> Visit Your Group
> Yahoo! 360
> Share what matters
> Share your photos, blog.
> Control who sees what.
> Yahoo! Toolbar
> Get it Free!
> easy 1-click access
> to your groups.
> Yahoo! Groups
> Start a group
> in 3 easy steps.
> Connect with others.
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[Non-text portions of this message have been removed]

464. Re: [mkars80] VFO mod

Yahoo group: mkars80
Date: 2008-12-25 10:33:34 UTC
From: Steve Drury
Topic: 462 Message: 464

Thanks for the feedback Tony,

I had similar results on one of my radios (built recently from a kit) the other (1st prototype) was significantly improved - drifted during warm-up but didn't during long overs.

As all the ceramic capacitors are now NP0 types they can have a small positive or negative temperature coefficient so its just your luck whether they cancel each other out (and that of the inductor and Polyvaricon), in any case the radio is much more pleasurable to use.

I now have a layout for the CW adapter, I'm wondering if its too complex though - it has three potentiometers; CW drive level, hang time and side-tone level. Tone frequency is pre-set.

There are five PCB mounted connectors; DC power, Microphone / PTT, Key, Headphone and Loudspeaker. Included are solder pads for wandering leads going to the MKARS80 which are; DC power, Microphone / PTT and loudspeaker. Power can be daisy chained from the CW adapter to the MKARS80, this though may cause audio frequency instability due to ground loops - I need to check this with a prototype.

I will post a picture once its all tracked.

Seasons greetings,
Steve G6ALU

----- Original Message -----
From: "Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Thursday, December 25, 2008 10:11 AM
Subject: [mkars80] VFO mod

> Hello Steve,
>
> I changed the two caps in the VFO (which I got from you) switched it
> on and did a quick (1min) re-tune of C38 and left it switched on and
> zero drift over a two hour period on receive. It remained on all
> afternoon and still no drift, I then had long QSO's this evening, some
> overs five to ten minutes long, and still it remained within the Huff
> & Puff envelope so needless to say I'm delighted with the improvement
> to stability. Many thanks. Two more sets to modify and hopefully with
> the same results.
>
> I now look forward to the CW add-on and will maybe also think about
> the AGC mod.
>

> 73 Tony ZL3HAM
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1863 - Release Date: 12/24/2008
11:49 AM

465. Re: [mkars80] VFO mod

Yahoo group: mkars80
Date: 2008-12-25 11:04:02 UTC
From: Steve Drury
Topic: 462 Message: 465

Hello Ron,

Our tests have shown there is little difference between polystyrene and ceramic NP0 types - I will send you replacements when the post office re-opens after Christmas.

Regards,
Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Thursday, December 25, 2008 10:33 AM
Subject: Re: [mkars80] VFO mod

> Hello Steve,
>
> The NP0 ceramic capacitors as a replacement for the Mylar types
> appear to do a good job indeed. I still use polystyrene for two of
> my MKARS80's but would like to try the caps you have now available
> for all three I bought. Could you send me six of these caps after Xmas?
>
> Thanks and 73
>
> Ron pa0rcl
>> Messages in this topic (1)Reply (via web post) | Start a new topic
>> Messages | Files | Photos | Links
>>
>> Change settings via the Web (Yahoo! ID required)
>> Change settings via email: Switch delivery to Daily Digest | Switch
>> format to Traditional
>> Visit Your Group | Yahoo! Groups Terms of Use | Unsubscribe
>> RECENT ACTIVITY
>> 3
>> New Files
>> Visit Your Group
>> Yahoo! 360
>> Share what matters
>> Share your photos, blog.
>> Control who sees what.
>> Yahoo! Toolbar
>> Get it Free!
>> easy 1-click access
>> to your groups.
>> Yahoo! Groups
>> Start a group

>> in 3 easy steps.
>> Connect with others.
>> .
>>
>>
>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.0/1863 - Release Date: 12/24/2008
11:49 AM

466. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2008-12-25 19:01:25 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 466

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /CW Adapter/CW adapter overlay.JPG
Uploaded by : hamlab3 <g6alu@...>
Description : Overlay of proposed CW adapter

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/CW%20adapter%20overlay.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

hamlab3 <g6alu@...>

467. Re: VFO mod

Yahoo group: mkars80
Date: 2008-12-25 19:51:26 UTC
From: Tony Buckland
Topic: 462 Message: 467

Hello Steve,

> Thanks for the feedback Tony,
>
> I had similar results on one of my radios (built recently from a kit) the
> other (1st prototype) was significantly improved - drifted during warm-up
> but didn't during long overs.
Interesting. I think different sets will react differently due to slight component coefficient differences throughout the set. I secured all my toroids and transformers with clear nail varnish which might help.
>
> As all the ceramic capacitors are now NP0 types they can have a small
> positive or negative temperature coefficient so its just your luck whether
> they cancel each other out (and that of the inductor and Polyvaricon), in
> any case the radio is much more pleasurable to use.
Agreed, it's the icing on the cake :-).
>
> I now have a layout for the CW adapter, I'm wondering if its too complex
> though - it has three potentiometers; CW drive level, hang time and
> side-tone level. Tone frequency is pre-set.
It sounds fine to me and all necessary controls.
>
> There are five PCB mounted connectors; DC power, Microphone / PTT, Key,
> Headphone and Loudspeaker. Included are solder pads for wandering leads
> going to the MKARS80 which are; DC power, Microphone / PTT and loudspeaker.
> Power can be daisy chained from the CW adapter to the MKARS80, this though
> may cause audio frequency instability due to ground loops - I need to check
> this with a prototype.
This is possible of course and will be interested in your findings.
>
> I will post a picture once its all tracked.
Great. I will add a keyer chip to mine to use in Iambic mode.
>
> Seasons greetings, **Cheers.**

Look forward to developments.
73 Tony ZL3HAM
> Steve G6ALU

468. New member

Yahoo group: mkars80
Date: 2008-12-25 20:09:45 UTC
From: Steve Drury
Topic: 468 Message: 468

Good evening tw0e0moc.

Have fun!

"Hi all and a Merry xmas, opened my pressie's today and surprise there was an Mkars80, so here we are on chrismas night getting to grips with the kit.Il keep you all updated with my progress."

Steve G6ALU

[Non-text portions of this message have been removed]

469. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2008-12-26 16:50:16 UTC
From: Arnie Grubbs
Topic: 469 Message: 469

Hello! Steve and the group:

I am thinking that the CW adapter might be of some in interest to people who have built BiTX20 or BiTX17 rigs.
I know that these rigs are probably not as stable as the MKARS80 with the H&P VFO, but some of the guys have
added DDS VFO's or other 'nifty ideas' to get the rig to stay put.

I don't know if you would want to put it out on the 'other' yahoo e-group, but I think you might find some interest there for your new kit.

If you don't want to go to the bother of supporting it in the USA, I would bet that Doug Hendricks of QRPkits.com would work with you to give you an outlet in the USA..

Anyhow, this is just a few of my thoughts.. hope I don't step on any toes by suggesting this!

73 - Arnie KA0NCR

> _____
> 1.1. New file uploaded to mkars80
> Posted by: "mkars80@..."
> mkars80@...
> Date: Thu Dec 25, 2008 7:01 pm
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the mkars80
> group.
>
> File : /CW Adapter/CW adapter overlay.JPG
> Uploaded by : hamlab3 <g6alu@...>
> Description : Overlay of proposed CW adapter
>
> You can access this file at the URL:
> http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/CW%20adapter%20overlay.JPG
>

471. lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 19:35:27 UTC
From: m1dgq1@rocketmail.com
Topic: 471 Message: 471

hi any one tel me why my display is showing 9.9**** instead of the expected 3.5**** having just compleleted the build and doing the testing and set up i cannot get it to display the correct frequency any surggestions

peter m1dgq by the way its a version 1.1

472. Re: [mkars80] lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 20:03:04 UTC
From: Steve Drury
Topic: 471 Message: 472

Hello Peter,

I'm confused as well! Do you have access to a frequency counter? If so measure the frequency at TP 10MHz and TP VFO. It may be the VFO is running much too high in frequency; does the frequency change with tuning?

Do you hear any 80M stations? You should hear plenty in the evening.

Let me know how you get on....

Steve G6ALU

----- Original Message -----
From: <m1dgq1@...>
To: <mkars80@...>
Sent: Tuesday, December 30, 2008 7:35 PM
Subject: [mkars80] lcd displaying wrong freq

> hi any one tel me why my display is showing 9.9**** instead of the
> expected 3.5**** having just compleleted the build and doing the test
> ing and set up i cannot get it to display the correct frequency any
> surggestions
>
> peter m1dgq by the way its a version 1.1
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date: 12/29/2008 10:48 AM

473. Re: lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 20:29:02 UTC
From: m1dgq1@rocketmail.com
Topic: 471 Message: 473

vfo has been set with a freq counter to 9.99999981 cant get it more
accurate ive tried and yes i am hearing things that are on the band
as heard on my ic746 what do i look at next

cheers for the reply m1dgq

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hello Peter,
>
> I'm confused as well! Do you have access to a frequency counter? If
so
> measure the frequency at TP 10MHz and TP VFO. It may be the VFO is
running
> much too high in frequency; does the frequency change with tuning?
>
> Do you hear any 80M stations? You should hear plenty in the evening.
>
> Let me know how you get on....
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m1dgq1@...>
> To: <mkars80@...>
> Sent: Tuesday, December 30, 2008 7:35 PM
> Subject: [mkars80] lcd displaying wrong freq
>
>
> > hi any one tel me why my display is showing 9.9**** instead of the
> > expected 3.5**** having just compleleted the build and doing the
test
> > ing and set up i cannot get it to display the correct frequency
any
> > surggestions
> >
> > peter m1dgq by the way its a version 1.1
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> ---

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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date:
12/29/2008
> 10:48 AM
>

474. Re: [mkars80] Re: lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 20:35:27 UTC
From: Steve Drury
Topic: 471 Message: 474

Peter, I think you mean the BFO (measured at TP 10MHz)... if you are hearing things there can't be much wrong.

What frequency are you getting at TP VFO? If the VFO signal isn't getting to the micro you get a corrupt reading, something like "@.000400MHz" .

Steve G6ALU

----- Original Message -----
From: <m1dgq1@...>
To: <mkars80@...>
Sent: Tuesday, December 30, 2008 8:29 PM
Subject: [mkars80] Re: lcd displaying wrong freq

> vfo has been set with a freq counter to 9.99999981 cant get it more
> accurate ive tried and yes i am hearing things that are on the band
> as heard on my ic746 what do i look at next
>
> cheers for the reply m1dgq
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>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hello Peter,
>>
>> I'm confused as well! Do you have access to a frequency counter? If
> so
>> measure the frequency at TP 10MHz and TP VFO. It may be the VFO is
> running
>> much too high in frequency; does the frequency change with tuning?
>>
>> Do you hear any 80M stations? You should hear plenty in the evening.
>>
>> Let me know how you get on....
>>

>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: <m1dgq1@...>
>> To: <mkars80@...>
>> Sent: Tuesday, December 30, 2008 7:35 PM
>> Subject: [mkars80] lcd displaying wrong freq
>>
>>
>> > hi any one tel me why my display is showing 9.9**** instead of the
>> > expected 3.5**** having just compleleted the build and doing the
> test
>> > ing and set up i cannot get it to display the correct frequency
> any
>> > surggestions
>> >
>> > peter m1dgq by the way its a version 1.1
>> >
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>> > ------------------------------------
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>> > Yahoo! Groups Links
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>>
>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date:
> 12/29/2008
>> 10:48 AM
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> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date: 12/29/2008
10:48 AM

475. Re: lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 20:50:25 UTC
From: m1dgq1@rocketmail.com
Topic: 471 Message: 475

i dont seem to get any reading at the vfo test point and yes i ment to say at the bfo test point the lcd says 9.9333 etc but as i change the cap for C38 i get the display you typed in your last any other ideas

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Peter, I think you mean the BFO (measured at TP 10MHz)... if you are hearing
> things there can't be much wrong.
>
> What frequency are you getting at TP VFO? If the VFO signal isn't getting to
> the micro you get a corrupt reading, something like "@.000400MHz" .
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m1dgq1@...>
> To: <mkars80@...>
> Sent: Tuesday, December 30, 2008 8:29 PM
> Subject: [mkars80] Re: lcd displaying wrong freq
>
>
> > vfo has been set with a freq counter to 9.99999981 cant get it more
> > accurate ive tried and yes i am hearing things that are on the band
> > as heard on my ic746 what do i look at next
> >
> > cheers for the reply m1dgq
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> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:

> >>
> >> Hello Peter,
> >>
> >> I'm confused as well! Do you have access to a frequency counter?
If
> > so
> >> measure the frequency at TP 10MHz and TP VFO. It may be the VFO
is
> > running
> >> much too high in frequency; does the frequency change with
tuning?
> >>
> >> Do you hear any 80M stations? You should hear plenty in the
evening.
> >>
> >> Let me know how you get on....
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: <m1dgq1@>
> >> To: <mkars80@...>
> >> Sent: Tuesday, December 30, 2008 7:35 PM
> >> Subject: [mkars80] lcd displaying wrong freq
> >>
> >>
> >> > hi any one tel me why my display is showing 9.9**** instead of
the
> >> > expected 3.5**** having just compleleted the build and doing
the
> > test
> >> > ing and set up i cannot get it to display the correct frequency
> > any
> >> > surggestions
> >> >
> >> > peter m1dgq by the way its a version 1.1
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> >> > ------------------------------------
> >> >
> >> > Yahoo! Groups Links
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> >>
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - http://www.avg.com
> >> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date:
> > 12/29/2008
> >> 10:48 AM
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date:
12/29/2008
> 10:48 AM
>

476. Re: [mkars80] Re: lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 21:00:28 UTC
From: Steve Drury
Topic: 471 Message: 476

Check voltages around the buffer transistor Q8, hopefully this will lead to
the fault.

Regards,
Steve G6ALU

----- Original Message -----
From: <m1dgq1@...>
To: <mkars80@...>
Sent: Tuesday, December 30, 2008 8:50 PM
Subject: [mkars80] Re: lcd displaying wrong freq

>i dont seem to get any reading at the vfo test point and yes i ment
> to say at the bfo test point the lcd says 9.9333 etc but as i change
> the cap for C38 i get the display you typed in your last any other
> ideas
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>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Peter, I think you mean the BFO (measured at TP 10MHz)... if you
> are hearing
>> things there can't be much wrong.
>>
>> What frequency are you getting at TP VFO? If the VFO signal isn't
> getting to
>> the micro you get a corrupt reading, something like "@.000400MHz" .
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: <m1dgq1@...>
>> To: <mkars80@...>
>> Sent: Tuesday, December 30, 2008 8:29 PM
>> Subject: [mkars80] Re: lcd displaying wrong freq
>>
>>
>> > vfo has been set with a freq counter to 9.99999981 cant get it
> more
>> > accurate ive tried and yes i am hearing things that are on the
> band

>> > as heard on my ic746 what do i look at next
>> >
>> > cheers for the reply m1dgq
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>> >
>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Hello Peter,
>> >>
>> >> I'm confused as well! Do you have access to a frequency counter?
> If
>> > so
>> >> measure the frequency at TP 10MHz and TP VFO. It may be the VFO
> is
>> > running
>> >> much too high in frequency; does the frequency change with
> tuning?
>> >>
>> >> Do you hear any 80M stations? You should hear plenty in the
> evening.
>> >>
>> >> Let me know how you get on....
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: <m1dgq1@>
>> >> To: <mkars80@...>
>> >> Sent: Tuesday, December 30, 2008 7:35 PM
>> >> Subject: [mkars80] lcd displaying wrong freq
>> >>
>> >>
>> >> > hi any one tel me why my display is showing 9.9**** instead of
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>> >> > expected 3.5**** having just compleleted the build and doing
> the
>> > test
>> >> > ing and set up i cannot get it to display the correct frequency
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>> >> > surggestions
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>> >> > peter m1dgq by the way its a version 1.1
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>> >> > Yahoo! Groups Links
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>> >> No virus found in this incoming message.
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>> >> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date:
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>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date: 12/29/2008
10:48 AM

477. Re: lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 21:12:29 UTC
From: m1dgq1@rocketmail.com
Topic: 471 Message: 477

voltage on the far right pin track side 2.2 volts middle pin 0.65
volts and left pin 0 volts

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Check voltages around the buffer transistor Q8, hopefully this will
lead to
> the fault.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: <m1dgq1@...>
> To: <mkars80@...>
> Sent: Tuesday, December 30, 2008 8:50 PM
> Subject: [mkars80] Re: lcd displaying wrong freq
>
>
> >i dont seem to get any reading at the vfo test point and yes i ment
> > to say at the bfo test point the lcd says 9.9333 etc but as i
change
> > the cap for C38 i get the display you typed in your last any
other
> > ideas
> >
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> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Peter, I think you mean the BFO (measured at TP 10MHz)... if you
> > are hearing
> >> things there can't be much wrong.
> >>
> >> What frequency are you getting at TP VFO? If the VFO signal isn't
> > getting to
> >> the micro you get a corrupt reading, something
like "@.000400MHz" .
> >>
> >> Steve G6ALU
> >>

> >> ----- Original Message -----
> >> From: <m1dgq1@>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Tuesday, December 30, 2008 8:29 PM
> >> Subject: [mkars80] Re: lcd displaying wrong freq
> >>
> >>
> >> > vfo has been set with a freq counter to 9.99999981 cant get it
> > more
> >> > accurate ive tried and yes i am hearing things that are on the
> > band
> >> > as heard on my ic746 what do i look at next
> >> >
> >> > cheers for the reply m1dgq
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> >> >
> >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Hello Peter,
> >> >>
> >> >> I'm confused as well! Do you have access to a frequency
counter?
> > If
> >> > so
> >> >> measure the frequency at TP 10MHz and TP VFO. It may be the
VFO
> > is
> >> > running
> >> >> much too high in frequency; does the frequency change with
> > tuning?
> >> >>
> >> >> Do you hear any 80M stations? You should hear plenty in the
> > evening.
> >> >>
> >> >> Let me know how you get on....
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> ----- Original Message -----

> >> >> From: <m1dgq1@>
> >> >> To: <mkars80@...>
> >> >> Sent: Tuesday, December 30, 2008 7:35 PM
> >> >> Subject: [mkars80] lcd displaying wrong freq
> >> >>
> >> >>
> >> >> > hi any one tel me why my display is showing 9.9**** instead
of
> > the
> >> >> > expected 3.5**** having just compleleted the build and doing
> > the
> >> > test
> >> >> > ing and set up i cannot get it to display the correct
frequency
> >> > any
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> >> >> >
> >> >> > peter m1dgq by the way its a version 1.1
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> >> >> > Yahoo! Groups Links
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> >> >>
> >> >> No virus found in this incoming message.
> >> >> Checked by AVG - http://www.avg.com
> >> >> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release
Date:
> >> > 12/29/2008
> >> >> 10:48 AM
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> >> No virus found in this incoming message.
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> >> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date:
> > 12/29/2008
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> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date:
12/29/2008
> 10:48 AM
>

478. Re: [mkars80] Re: lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 21:20:53 UTC
From: Steve Drury
Topic: 471 Message: 478

Are you sure you are receiving 80M transmissions? the fact that you can't get a reading at TP VFO is significant, the signal level here should be sufficient for most frequency counters. Have you checked voltages around Q11 and Q12?

Steve G6ALU

----- Original Message -----
From: <m1dgq1@...>
To: <mkars80@...>
Sent: Tuesday, December 30, 2008 9:12 PM
Subject: [mkars80] Re: lcd displaying wrong freq

> voltage on the far right pin track side 2.2 volts middle pin 0.65
> volts and left pin 0 volts
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Check voltages around the buffer transistor Q8, hopefully this will
> lead to
>> the fault.
>>
>> Regards,
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: <m1dgq1@...>
>> To: <mkars80@...>
>> Sent: Tuesday, December 30, 2008 8:50 PM
>> Subject: [mkars80] Re: lcd displaying wrong freq
>>
>>
>> >i dont seem to get any reading at the vfo test point and yes i ment
>> > to say at the bfo test point the lcd says 9.9333 etc but as i
> change
>> > the cap for C38 i get the display you typed in your last any
> other
>> > ideas
>> >
>> >
>> >
>> >
>> >
>> >
>> >

>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Peter, I think you mean the BFO (measured at TP 10MHz)... if you
>> > are hearing
>> >> things there can't be much wrong.
>> >>
>> >> What frequency are you getting at TP VFO? If the VFO signal isn't
>> > getting to
>> >> the micro you get a corrupt reading, something
> like "@.000400MHz" .
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: <m1dgq1@>
>> >> To: <mkars80@...>
>> >> Sent: Tuesday, December 30, 2008 8:29 PM
>> >> Subject: [mkars80] Re: lcd displaying wrong freq
>> >>
>> >>
>> >> > vfo has been set with a freq counter to 9.99999981 cant get it
>> > more
>> >> > accurate ive tried and yes i am hearing things that are on the
>> > band
>> >> > as heard on my ic746 what do i look at next
>> >> >
>> >> > cheers for the reply m1dgq
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> >
>> >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >> >>
>> >> >> Hello Peter,
>> >> >>
>> >> >> I'm confused as well! Do you have access to a frequency
> counter?
>> > If
>> >> > so
>> >> >> measure the frequency at TP 10MHz and TP VFO. It may be the
> VFO

>> > is
>> >> > running
>> >> >> much too high in frequency; does the frequency change with
>> > tuning?
>> >> >>
>> >> >> Do you hear any 80M stations? You should hear plenty in the
>> > evening.
>> >> >>
>> >> >> Let me know how you get on....
>> >> >>
>> >> >> Steve G6ALU
>> >> >>
>> >> >> ----- Original Message -----
>> >> >> From: <m1dgq1@>
>> >> >> To: <mkars80@...>
>> >> >> Sent: Tuesday, December 30, 2008 7:35 PM
>> >> >> Subject: [mkars80] lcd displaying wrong freq
>> >> >>
>> >> >>
>> >> >> > hi any one tel me why my display is showing 9.9**** instead
> of
>> > the
>> >> >> > expected 3.5**** having just compleleted the build and doing
>> > the
>> >> > test
>> >> >> > ing and set up i cannot get it to display the correct
> frequency
>> >> > any
>> >> >> > surggestions
>> >> >> >
>> >> >> > peter m1dgq by the way its a version 1.1
>> >> >> >
>> >> >> >
>> >> >> > ------------------------------------
>> >> >> >
>> >> >> > Yahoo! Groups Links
>> >> >> >
>> >> >> >
>> >> >> >
>> >> >>
>> >> >>
>> >> >> --
> ---
>> > ---
>> >> > ------------
>> >> >>
>> >> >>
>> >> >>
>> >> >> No virus found in this incoming message.
>> >> >> Checked by AVG - http://www.avg.com

>> >> >> Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release
> Date:
>> >> > 12/29/2008
>> >> >> 10:48 AM
>> >> >>
>> >> >
>> >> >
>> >> >
>> >> > ------------------------------------
>> >> >
>> >> > Yahoo! Groups Links
>> >> >
>> >> >
>> >> >
>> >>
>> >>
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>> --
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> 12/29/2008
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>
>
>
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>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1868 - Release Date: 12/29/2008
10:48 AM

479. Re: lcd displaying wrong freq

Yahoo group: mkars80
Date: 2008-12-30 21:44:23 UTC
From: m1dgq1@rocketmail.com
Topic: 471 Message: 479

what should i be seeing at vfo tp and q12 readings are a little low
gate is about 1.92 drain is about 2.5 and source is about 7.75

supply voltage is about 12.5 volts for refrence.

last minute test of vfo tp reading 67 mhzish

stopping for the evening will get back to it in the new year as away
from tomorrow

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Are you sure you are receiving 80M transmissions? the fact that you
can't
> get a reading at TP VFO is significant, the signal level here
should be
> sufficient for most frequency counters. Have you checked voltages
around Q11
> and Q12?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m1dgq1@...>
> To: <mkars80@...>
> Sent: Tuesday, December 30, 2008 9:12 PM
> Subject: [mkars80] Re: lcd displaying wrong freq
>
>
> > voltage on the far right pin track side 2.2 volts middle pin 0.65
> > volts and left pin 0 volts
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Check voltages around the buffer transistor Q8, hopefully this
will
> > lead to
> >> the fault.
> >>
> >> Regards,
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: <m1dgq1@>
> >> To: <mkars80@...>

> >> Sent: Tuesday, December 30, 2008 8:50 PM
> >> Subject: [mkars80] Re: lcd displaying wrong freq
> >>
> >>
> >> >i dont seem to get any reading at the vfo test point and yes i
ment
> >> > to say at the bfo test point the lcd says 9.9333 etc but as i
> > change
> >> > the cap for C38 i get the display you typed in your last any
> > other
> >> > ideas
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >> >
> >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Peter, I think you mean the BFO (measured at TP 10MHz)... if
you
> >> > are hearing
> >> >> things there can't be much wrong.
> >> >>
> >> >> What frequency are you getting at TP VFO? If the VFO signal
isn't
> >> > getting to
> >> >> the micro you get a corrupt reading, something
> > like "@.000400MHz" .
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> ----- Original Message -----
> >> >> From: <m1dgq1@>
> >> >> To: <mkars80@...>
> >> >> Sent: Tuesday, December 30, 2008 8:29 PM
> >> >> Subject: [mkars80] Re: lcd displaying wrong freq
> >> >>
> >> >>
> >> >> > vfo has been set with a freq counter to 9.99999981 cant get
it
> >> > more
> >> >> > accurate ive tried and yes i am hearing things that are on
the
> >> > band
> >> >> > as heard on my ic746 what do i look at next
> >> >> >
> >> >> > cheers for the reply m1dgq
> >> >> >

> >> >> >
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> >> >> >
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> >> >> >
> >> >> >
> >> >> > --- In mkars80@..., "Steve Drury" <g6alu@>
wrote:
> >> >> >>
> >> >> >> Hello Peter,
> >> >> >>
> >> >> >> I'm confused as well! Do you have access to a frequency
> > counter?
> >> > If
> >> >> > so
> >> >> >> measure the frequency at TP 10MHz and TP VFO. It may be the
> > VFO
> >> > is
> >> >> > running
> >> >> >> much too high in frequency; does the frequency change with
> >> > tuning?
> >> >> >>
> >> >> >> Do you hear any 80M stations? You should hear plenty in the
> >> > evening.
> >> >> >>
> >> >> >> Let me know how you get on....
> >> >> >>
> >> >> >> Steve G6ALU
> >> >> >>
> >> >> >> ----- Original Message -----
> >> >> >> From: <m1dgq1@>
> >> >> >> To: <mkars80@...>
> >> >> >> Sent: Tuesday, December 30, 2008 7:35 PM
> >> >> >> Subject: [mkars80] lcd displaying wrong freq
> >> >> >>
> >> >> >>
> >> >> >> > hi any one tel me why my display is showing 9.9****
instead
> > of
> >> > the
> >> >> >> > expected 3.5**** having just compleleted the build and
doing
> >> > the
> >> >> > test

> >> >> >> > ing and set up i cannot get it to display the correct
> > frequency
> >> >> > any
> >> >> >> > surggestions
> >> >> >> >
> >> >> >> > peter m1dgq by the way its a version 1.1
> >> >> >> >
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> >> >> >> > ------------------------------------
> >> >> >> >
> >> >> >> > Yahoo! Groups Links
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> > ---
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> > Date:
> >> >> > 12/29/2008
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> >> >> >
> >> >> >
> >> >> > ------------------------------------
> >> >> >
> >> >> > Yahoo! Groups Links
> >> >> >
> >> >> >
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> >> >>
> >> >>
> >> >> --

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12/29/2008
> 10:48 AM

>

480. Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2008-12-31 13:44:09 UTC
From: Steve Drury
Topic: 480 Message: 480

A prototype of the CW adapter is being tested by John M0TIF who has identified a few minor issues but is otherwise pleased with its performance, I will modify the schematic and build a new prototype PCB before ordering quantity for sale.

To get the best out of the radio in CW mode I have made changes to the PIC firmware which is now at version 2.0, anyone who can program the PIC16F818 is welcome to give it a try and give me feedback on its performance. One requirement is that the VFO stability modification has been completed.

Firmware differences:
V1.1 - Huff and Puff output is driven by a PWM waveform, the problem with this is it has a limited resolution - each step (it is 10 bit - 1024 steps) changes the frequency by a finite amount; when listening to a constant tone (CW!) you can hear the frequency change, this is exaggerated by the Huff and Puff having a resolution of 25Hz. This frequency change meant the radio couldn't be used very effectively on digi modes - PSK31 for example. The tuning "bar" displays how much correction is being applied to the VFO so its possible to judge when lock will be lost.

V2.0 - When the VFO is tuned to the correct frequency the control output goes high impedance, when it is off frequency the micro generates short +Ve or -Ve going pulses depending on the correction needed, these are filtered by the existing resistor / capacitor filter. The frequency still wanders but slowly and not noticeably, this is also improved by the resolution now being 5Hz. The tuning "bar" now displays frequency error; actual frequency compared with displayed frequency. In normal use the bar will be central, if the Huff and Puff is about to lose lock the bar will move from the centre to the left or right depending on the direction of drift.

These firmware changes also make tuning more pleasant as the Huff and Puff won't fight you. Once the new release has been proven I will offer it as an upgrade for existing owners and include it in new kits.

The software can be downloaded from the group files section.

Regards,
Steve G6ALU

[Non-text portions of this message have been removed]

481. Re: [mkars80] Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2008-12-31 15:19:52 UTC
From: Tony Olewicz
Topic: 480 Message: 481

Good work Steve,
Looking forward to the CW adaptor, and will be looking for a spare PIC to program.
Any space left on the PIC for band-edge warnings?

Regards
Tony
G6XMO

--- On Wed, 31/12/08, Steve Drury <g6alu@tiscali.co.uk> wrote:

From: Steve Drury <g6alu@...>
Subject: [mkars80] Update - CW adapter and new firmware
To: mkars80@...
Date: Wednesday, 31 December, 2008, 1:44 PM

A prototype of the CW adapter is being tested by John M0TIF who has identified a few minor issues but is otherwise pleased with its performance, I will modify the schematic and build a new prototype PCB before ordering quantity for sale.

To get the best out of the radio in CW mode I have made changes to the PIC firmware which is now at version 2.0, anyone who can program the PIC16F818 is welcome to give it a try and give me feedback on its performance. One requirement is that the VFO stability modification has been completed.

Firmware differences:
V1.1 - Huff and Puff output is driven by a PWM waveform, the problem with this is it has a limited resolution - each step (it is 10 bit - 1024 steps) changes the frequency by a finite amount; when listening to a constant tone (CW!) you can hear the frequency change, this is exaggerated by the Huff and Puff having a resolution of 25Hz. This frequency change meant the radio couldn't be used very effectively on digi modes - PSK31 for example. The tuning "bar" displays how much correction is being applied to the VFO so its possible to judge when lock will be lost.

V2.0 - When the VFO is tuned to the correct frequency the control output goes high impedance, when it is off frequency the micro generates short +Ve or -Ve going pulses depending on the correction needed, these are filtered by the existing resistor / capacitor filter. The frequency still wanders but slowly and not noticeably, this is also improved by the resolution now being 5Hz. The tuning "bar" now displays frequency error; actual frequency compared with displayed frequency. In normal use the bar will be central, if the Huff and Puff is about to lose lock the bar will move from the centre to the left or right depending on the direction of drift.

These firmware changes also make tuning more pleasant as the Huff and Puff won't fight you. Once the new release has been proven I will offer it as an upgrade for existing owners and include it in new kits.

The software can be downloaded from the group files section.

Regards,
Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

482. Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2008-12-31 15:34:52 UTC
From: g3oth
Topic: 480 Message: 482

Nice work Steve,
I look forward to hearing more about these updates when your tests are completed.
Meanwhile for those that may be interested a new free Ham Mag has just been launched.
To subscribe and download the first issue click on
http://ham.france.free.fr/crbst_18.html
Also whilst you are at it you might also consider signing up to the following:
http://petitions.pm.gov.uk/SaveShortwave/

73 es Happy New Year de Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> A prototype of the CW adapter is being tested by John M0TIF who has identified a few minor issues but is otherwise pleased with its performance, I will modify the schematic and build a new prototype PCB before ordering quantity for sale.
>
> To get the best out of the radio in CW mode I have made changes to the PIC firmware which is now at version 2.0, anyone who can program the PIC16F818 is welcome to give it a try and give me feedback on its performance. One requirement is that the VFO stability modification has been completed.
>
> Firmware differences:
> V1.1 - Huff and Puff output is driven by a PWM waveform, the problem with this is it has a limited resolution - each step (it is 10 bit - 1024 steps) changes the frequency by a finite amount; when listening to a constant tone (CW!) you can hear the frequency change, this is exaggerated by the Huff and Puff having a resolution of 25Hz. This frequency change meant the radio couldn't be used very effectively on digi modes - PSK31 for example. The tuning "bar" displays how much correction is being applied to the VFO so its possible to judge when lock will be lost.
>
> V2.0 - When the VFO is tuned to the correct frequency the control output goes high impedance, when it is off frequency the micro generates short +Ve or -Ve going pulses depending on the correction needed, these are filtered by the existing resistor / capacitor filter. The frequency still wanders but slowly and not noticeably, this is also improved by the resolution now being 5Hz. The tuning "bar" now displays frequency error; actual frequency compared with displayed frequency. In normal use the bar will be central, if

the Huff and Puff is about to lose lock the bar will move from the centre to the left or right depending on the direction of drift.
>
> These firmware changes also make tuning more pleasant as the Huff and Puff won't fight you. Once the new release has been proven I will offer it as an upgrade for existing owners and include it in new kits.
>
> The software can be downloaded from the group files section.
>
> Regards,
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>

483. Re: [mkars80] Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2008-12-31 15:41:09 UTC
From: Steve Drury
Topic: 480 Message: 483

Plenty of room, can I let someone else add them once the firmware is proven?

Steve G6ALU

----- Original Message -----
From: "Tony Olewicz" <hamfm1000@...>
To: <mkars80@...>
Sent: Wednesday, December 31, 2008 3:19 PM
Subject: Re: [mkars80] Update - CW adapter and new firmware

Good work Steve,
Looking forward to the CW adaptor, and will be looking for a spare PIC to program.
Any space left on the PIC for band-edge warnings?

Regards
Tony
G6XMO

--- On Wed, 31/12/08, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: [mkars80] Update - CW adapter and new firmware
To: mkars80@...
Date: Wednesday, 31 December, 2008, 1:44 PM

A prototype of the CW adapter is being tested by John M0TIF who has identified a few minor issues but is otherwise pleased with its performance, I will modify the schematic and build a new prototype PCB before ordering quantity for sale.

To get the best out of the radio in CW mode I have made changes to the PIC firmware which is now at version 2.0, anyone who can program the PIC16F818 is welcome to give it a try and give me feedback on its performance. One requirement is that the VFO stability modification has been completed.

Firmware differences:
V1.1 - Huff and Puff output is driven by a PWM waveform, the problem with this is it has a limited resolution - each step (it is 10 bit - 1024 steps) changes the frequency by a finite amount; when listening to a constant tone (CW!) you can hear the frequency change, this is exaggerated by the Huff and Puff having a resolution of 25Hz. This frequency change meant the radio couldn't be used very effectively on digi modes - PSK31 for example. The tuning "bar" displays how much correction is being applied to the VFO so its possible to judge when lock will be lost.

V2.0 - When the VFO is tuned to the correct frequency the control output goes high impedance, when it is off frequency the micro generates short +Ve or -Ve going pulses depending on the correction needed, these are filtered by the existing resistor / capacitor filter. The frequency still wanders but slowly and not noticeably, this is also improved by the resolution now being 5Hz. The tuning "bar" now displays frequency error; actual frequency compared with displayed frequency. In normal use the bar will be central, if the Huff and Puff is about to lose lock the bar will move from the centre to the left or right depending on the direction of drift.

These firmware changes also make tuning more pleasant as the Huff and Puff won't fight you. Once the new release has been proven I will offer it as an upgrade for existing owners and include it in new kits.

The software can be downloaded from the group files section.

Regards,
Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008 12:06 PM

484. Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2008-12-31 22:27:06 UTC
From: Tony Buckland
Topic: 480 Message: 484

Hello Steve,

Good news that the CW adapter is nearing completion.

I have just got a PIC programmer but not used to using it yet, what files would I have to load into the PIC? Would it just be the HEX file or all of them?

If all else fails I'll wait for the V2 PIC to be available.

Thanks again for a great rig and all your hard work, much appreciated.

73 Tony ZL3HAM

>
> A prototype of the CW adapter is being tested by John M0TIF who has identified a few minor issues but is otherwise pleased with its performance, I will modify the schematic and build a new prototype PCB before ordering quantity for sale.
>
> To get the best out of the radio in CW mode I have made changes to the PIC firmware which is now at version 2.0, anyone who can program the PIC16F818 is welcome to give it a try and give me feedback on its performance. One requirement is that the VFO stability modification has been completed.

485. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2008-12-31 22:42:59 UTC
From: Steve Drury
Topic: 480 Message: 485

Hi Tony, what programmer is it? For most you can just load the .HEX file.

Steve G6ALU

----- Original Message -----
From: "Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Wednesday, December 31, 2008 10:27 PM
Subject: [mkars80] Re: Update - CW adapter and new firmware

> Hello Steve,
>
> Good news that the CW adapter is nearing completion.
>
> I have just got a PIC programmer but not used to using it yet, what
> files would I have to load into the PIC? Would it just be the HEX file
> or all of them?
>
> If all else fails I'll wait for the V2 PIC to be available.
>
> Thanks again for a great rig and all your hard work, much appreciated.
>
> 73 Tony ZL3HAM
>
>
>
>
>>
>> A prototype of the CW adapter is being tested by John M0TIF who has
> identified a few minor issues but is otherwise pleased with its
> performance, I will modify the schematic and build a new prototype PCB
> before ordering quantity for sale.
>>
>> To get the best out of the radio in CW mode I have made changes to
> the PIC firmware which is now at version 2.0, anyone who can program
> the PIC16F818 is welcome to give it a try and give me feedback on its
> performance. One requirement is that the VFO stability modification
> has been completed.
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008
12:06 PM

486. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2008-12-31 23:07:19 UTC
From: Liz & Tony Buckland
Topic: 480 Message: 486

Hello Steve,

>Hi Tony, what programmer is it? For most you can just load the .HEX
>file. **It's an Altronics K9505 (from Jaycar) Portable PIC
>Programmer using IC-Prog V1.06A software.**

73 Tony ZL3HAM

>Steve G6ALU
>
>----- Original Message -----
>From: "Tony Buckland"
><<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Wednesday, December 31, 2008 10:27 PM
>Subject: [mkars80] Re: Update - CW adapter and new firmware
>
> > Hello Steve,
> >
> > Good news that the CW adapter is nearing completion.
> >
> > I have just got a PIC programmer but not used to using it yet, what
> > files would I have to load into the PIC? Would it just be the HEX file
> > or all of them?
> >
> > If all else fails I'll wait for the V2 PIC to be available.
> >
> > Thanks again for a great rig and all your hard work, much appreciated.
> >
> > 73 Tony ZL3HAM
> >
> >
> >
> >
> >>
> >> A prototype of the CW adapter is being tested by John M0TIF who has
> > identified a few minor issues but is otherwise pleased with its
> > performance, I will modify the schematic and build a new prototype PCB
> > before ordering quantity for sale.
> >>
> >> To get the best out of the radio in CW mode I have made changes to
> > the PIC firmware which is now at version 2.0, anyone who can program
> > the PIC16F818 is welcome to give it a try and give me feedback on its
> > performance. One requirement is that the VFO stability modification
> > has been completed.
> >

> >
> > ------------------------------------
> >
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> >
> >
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>12:06 PM
>
>

[Non-text portions of this message have been removed]

487. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2008-12-31 23:37:17 UTC
From: Steve Drury
Topic: 480 Message: 487

OK, sorry I can't help with that programmer but it should be straight forward, all the fuse settings (watchdog timer, oscillator type etc) are contained within the code.

Steve G6ALU

----- Original Message -----
From: "Liz & Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Wednesday, December 31, 2008 11:07 PM
Subject: Re: [mkars80] Re: Update - CW adapter and new firmware

> Hello Steve,
>
>
>>Hi Tony, what programmer is it? For most you can just load the .HEX
>>file. **It's an Altronics K9505 (from Jaycar) Portable PIC
>>Programmer using IC-Prog V1.06A software.**
>
> 73 Tony ZL3HAM
>
>
>>Steve G6ALU
>>
>>----- Original Message -----
>>From: "Tony Buckland"
>><<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
>>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>>Sent: Wednesday, December 31, 2008 10:27 PM
>>Subject: [mkars80] Re: Update - CW adapter and new firmware
>>
>> > Hello Steve,
>> >
>> > Good news that the CW adapter is nearing completion.
>> >
>> > I have just got a PIC programmer but not used to using it yet, what
>> > files would I have to load into the PIC? Would it just be the HEX file
>> > or all of them?
>> >
>> > If all else fails I'll wait for the V2 PIC to be available.
>> >
>> > Thanks again for a great rig and all your hard work, much appreciated.
>> >
>> > 73 Tony ZL3HAM
>> >
>> >

>> >
>> >
>> >>
>> >> A prototype of the CW adapter is being tested by John M0TIF who has
>> > identified a few minor issues but is otherwise pleased with its
>> > performance, I will modify the schematic and build a new prototype PCB
>> > before ordering quantity for sale.
>> >>
>> >> To get the best out of the radio in CW mode I have made changes to
>> > the PIC firmware which is now at version 2.0, anyone who can program
>> > the PIC16F818 is welcome to give it a try and give me feedback on its
>> > performance. One requirement is that the VFO stability modification
>> > has been completed.
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
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>>
>>No virus found in this incoming message.
>>Checked by AVG - <http://www.avg.com>http://www.avg.com
>>Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date:
>>12/30/2008
>>12:06 PM
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>
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008
12:06 PM

488. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-01 00:10:54 UTC
From: Liz & Tony Buckland
Topic: 480 Message: 488

Thanks Steve, would I clear the chip first and then load on the HEX
file? Sorry for the dumb questions, this programming is new to me.

I also have a Velleman K8048 programmer someone gave to me.

73 Tony ZL3HAM

>OK, sorry I can't help with that programmer but it should be straight
>forward, all the fuse settings (watchdog timer, oscillator type etc) are
>contained within the code.
>
>Steve G6ALU
>
>----- Original Message -----
>From: "Liz & Tony Buckland"
><<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Wednesday, December 31, 2008 11:07 PM
>Subject: Re: [mkars80] Re: Update - CW adapter and new firmware
>
> > Hello Steve,
> >
> >
> >>Hi Tony, what programmer is it? For most you can just load the .HEX
> >>file. **It's an Altronics K9505 (from Jaycar) Portable PIC
> >>Programmer using IC-Prog V1.06A software.**
> >
> > 73 Tony ZL3HAM
> >
> >
> >>Steve G6ALU
> >>
> >>----- Original Message -----
> >>From: "Tony Buckland"
> >><<mailto:L-TBuckland%40xtra.co.nz><mailto:L-TBuckland%40xtra.co.nz
> >L-TBuckland@...>
> >>To:
> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> >>Sent: Wednesday, December 31, 2008 10:27 PM
> >>Subject: [mkars80] Re: Update - CW adapter and new firmware
> >>
> >> > Hello Steve,
> >> >
> >> > Good news that the CW adapter is nearing completion.
> >> >
> >> > I have just got a PIC programmer but not used to using it yet, what

> >> > files would I have to load into the PIC? Would it just be the HEX file
> >> > or all of them?
> >> >
> >> > If all else fails I'll wait for the V2 PIC to be available.
> >> >
> >> > Thanks again for a great rig and all your hard work, much appreciated.
> >> >
> >> > 73 Tony ZL3HAM
> >> >
> >> >
> >> >
> >> >
> >> >>
> >> >> A prototype of the CW adapter is being tested by John M0TIF who has
> >> > identified a few minor issues but is otherwise pleased with its
> >> > performance, I will modify the schematic and build a new prototype PCB
> >> > before ordering quantity for sale.
> >> >>
> >> >> To get the best out of the radio in CW mode I have made changes to
> >> > the PIC firmware which is now at version 2.0, anyone who can program
> >> > the PIC16F818 is welcome to give it a try and give me feedback on its
> >> > performance. One requirement is that the VFO stability modification
> >> > has been completed.
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> >>Checked by AVG - <<http://www.avg.com>http://www.avg.com>http://www.avg.com
> >>Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date:
> >>12/30/2008
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> >
> > [Non-text portions of this message have been removed]
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
>---
>
>No virus found in this incoming message.
>Checked by AVG - <http://www.avg.com>http://www.avg.com
>Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008
>12:06 PM
>
>

[Non-text portions of this message have been removed]

489. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-01 00:50:26 UTC
From: Steve Drury
Topic: 480 Message: 489

Morning Tony,

Most programmers will erase automatically first. Winpic will run the
Velleman programmer if you are stuck for software.

Regards,
Steve G6ALU

----- Original Message -----
From: "Liz & Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Thursday, January 01, 2009 12:10 AM
Subject: Re: [mkars80] Re: Update - CW adapter and new firmware

> Thanks Steve, would I clear the chip first and then load on the HEX
> file? Sorry for the dumb questions, this programming is new to me.
>
> I also have a Velleman K8048 programmer someone gave to me.
>
> 73 Tony ZL3HAM
>
>
>>OK, sorry I can't help with that programmer but it should be straight
>>forward, all the fuse settings (watchdog timer, oscillator type etc) are
>>contained within the code.
>>
>>Steve G6ALU
>>
>>----- Original Message -----
>>From: "Liz & Tony Buckland"
>><<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
>>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>>Sent: Wednesday, December 31, 2008 11:07 PM
>>Subject: Re: [mkars80] Re: Update - CW adapter and new firmware
>>
>> > Hello Steve,
>> >
>> >
>> >>Hi Tony, what programmer is it? For most you can just load the .HEX
>> >>file. **It's an Altronics K9505 (from Jaycar) Portable PIC
>> >>Programmer using IC-Prog V1.06A software.**
>> >
>> > 73 Tony ZL3HAM
>> >
>> >
>> >>Steve G6ALU

>> >>
>> >>----- Original Message -----
>> >>From: "Tony Buckland"
>> >><<mailto:L-TBuckland%40xtra.co.nz><mailto:L-TBuckland%40xtra.co.nz
>> >L-TBuckland@...>
>> >>To:
>> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>> >>Sent: Wednesday, December 31, 2008 10:27 PM
>> >>Subject: [mkars80] Re: Update - CW adapter and new firmware
>> >>
>> >> > Hello Steve,
>> >> >
>> >> > Good news that the CW adapter is nearing completion.
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>> >> > I have just got a PIC programmer but not used to using it yet, what
>> >> > files would I have to load into the PIC? Would it just be the HEX
>> >> > file
>> >> > or all of them?
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>> >> > Thanks again for a great rig and all your hard work, much
>> >> > appreciated.
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>> >> > 73 Tony ZL3HAM
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>> >> >> A prototype of the CW adapter is being tested by John M0TIF who has
>> >> > identified a few minor issues but is otherwise pleased with its
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>> >> > PCB
>> >> > before ordering quantity for sale.
>> >> >>
>> >> >> To get the best out of the radio in CW mode I have made changes to
>> >> > the PIC firmware which is now at version 2.0, anyone who can program
>> >> > the PIC16F818 is welcome to give it a try and give me feedback on
>> >> > its
>> >> > performance. One requirement is that the VFO stability modification
>> >> > has been completed.
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>> >>----------
>> >>
>> >>No virus found in this incoming message.
>> >>Checked by AVG -
>> >><<http://www.avg.com>http://www.avg.com>http://www.avg.com
>> >>Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date:
>> >>12/30/2008
>> >>12:06 PM
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>> >
>> > [Non-text portions of this message have been removed]
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008
12:06 PM

490. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-01 01:40:39 UTC
From: Liz & Tony Buckland
Topic: 480 Message: 490

Good morning Steve hope you enjoyed the festivities.

I plucked up courage and read the PIC and saved the file and then
erased the PIC and wrote on the new V2.0 HEX file and it worked :-).

First impressions are good, I particularly like the "U" whilst tuning
and then returning to the usual bars when the Huff & Puff takes over
and the 5Hz resolution is also much better for tuning. The Huff &
Puff still seems to switch in to early like V1.1, or am I too slow :-).

I will have a play this afternoon and evening and report back.

Thanks again.

73 Tony ZL3HAM

>Most programmers will erase automatically first. **This Altronics
>one is all manual which is not a problem as I now know the
>procedure.** Winpic will run the
>Velleman programmer if you are stuck for software. **Thanks for that
>I will check it out but I did get the proper Velleman software with
>the programmer.**

[Non-text portions of this message have been removed]

491. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-01 08:55:13 UTC
From: Steve Drury
Topic: 480 Message: 491

Tony,
Be even braver and load MPLAB then you can edit the code, the line you want
to alter is:

HoldDelay equ .40 ; Delay after, frequency change - Approx
8 seconds

The value 40 is decimal, 40 x 200mS = 8 seconds

Have fun,
Steve G6ALU

----- Original Message -----
From: "Liz & Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Thursday, January 01, 2009 1:40 AM
Subject: Re: [mkars80] Re: Update - CW adapter and new firmware

> Good morning Steve hope you enjoyed the festivities.
>
> I plucked up courage and read the PIC and saved the file and then
> erased the PIC and wrote on the new V2.0 HEX file and it worked :-).
>
> First impressions are good, I particularly like the "U" whilst tuning
> and then returning to the usual bars when the Huff & Puff takes over
> and the 5Hz resolution is also much better for tuning. The Huff &
> Puff still seems to switch in to early like V1.1, or am I too slow :-).
>
> I will have a play this afternoon and evening and report back.
>
> Thanks again.
>
> 73 Tony ZL3HAM
>
>
>
>>Most programmers will erase automatically first. **This Altronics
>>one is all manual which is not a problem as I now know the
>>procedure.** Winpic will run the
>>Velleman programmer if you are stuck for software. **Thanks for that
>>I will check it out but I did get the proper Velleman software with
>>the programmer.**
>
>
>
> [Non-text portions of this message have been removed]

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> ------------------------------------
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> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008
12:06 PM

492. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-01 09:43:57 UTC
From: Liz & Tony Buckland
Topic: 480 Message: 492

Cheers Steve I will download it when I pop round to one of my friends who have broadband, we are on painfully slow dial-up here being right out in the rural countryside. The plus side is very little noise on the bands :-).

Interestingly the delay on the Huff & Puff is approx eight seconds when the set is initially switched on but appears to come in a lot quicker when one is actually tuning around, this was the same as V1.1. I will have another check on it in the morning to make sure I'm not going completely mad :-). Also I will check to see if the software for the programmer I have here allows one to edit the code that way I can experiment with the timing.

Thanks again.

73 Tony ZL3HAM

>Tony,
>Be even braver and load MPLAB then you can edit the code, the line you want
>to alter is:
>
>HoldDelay equ .40 ; Delay after, frequency change - Approx
>8 seconds
>
>The value 40 is decimal, 40 x 200mS = 8 seconds
>
>Have fun,
>Steve G6ALU

493. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-01 19:00:43 UTC
From: Steve Drury
Topic: 480 Message: 493

Tony,
I have uploaded version 2.1 of the firmware to the server.

Ray G4TZR suggested a change to the algorithm; instead of waiting the 8 seconds after EVERY loss of lock the new firmware waits 3 seconds but if in that time the frequency has changed by more than ?15 Hz the timer is reset. This seems to work very naturally now and tuning is easy and pleasant.

Please give it a go and let me know what you think, if there are no issues this is the version I will go with.

Regards,
Steve G6ALU

NOTE
To keep to the spirit of our license "for the purpose of self training in radio communications" I provide the source code so that anyone interested can change and fine tune the firmware to their own taste and learn in the process.

----- Original Message -----
From: "Liz & Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Thursday, January 01, 2009 9:43 AM
Subject: Re: [mkars80] Re: Update - CW adapter and new firmware

> Cheers Steve I will download it when I pop round to one of my friends
> who have broadband, we are on painfully slow dial-up here being right
> out in the rural countryside. The plus side is very little noise on
> the bands :-).
>
> Interestingly the delay on the Huff & Puff is approx eight seconds
> when the set is initially switched on but appears to come in a lot
> quicker when one is actually tuning around, this was the same as
> V1.1. I will have another check on it in the morning to make sure I'm
> not going completely mad :-). Also I will check to see if the
> software for the programmer I have here allows one to edit the code
> that way I can experiment with the timing.
>
> Thanks again.
>
> 73 Tony ZL3HAM
>
>>Tony,
>>Be even braver and load MPLAB then you can edit the code, the line you
>>want

>>to alter is:
>>
>>HoldDelay equ .40 ; Delay after, frequency change - Approx
>>8 seconds
>>
>>The value 40 is decimal, 40 x 200mS = 8 seconds
>>
>>Have fun,
>>Steve G6ALU
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008
12:06 PM

494. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-01 23:03:29 UTC
From: Liz & Tony Buckland
Topic: 480 Message: 494

Hello Steve,

Thanks for the new firmware. The tuning is
certainly more pleasant and natural, a great improvement.

Just a very small finding - I still find it a bit
tricky to get it to stop exactly on the frequency
I want ie 3.682000, even using the fine tuning (I
also have the 10:1 reduction drive), it seems to
jump +or - 10-15Hz either side then locks. This
is not really an issue as a few Hz either way is
not a problem and it could be my tuning of course :-).

73 Tony

>Tony,
>I have uploaded version 2.1 of the firmware to the server.
>
>Ray G4TZR suggested a change to the algorithm; instead of waiting the 8
>seconds after EVERY loss of lock the new firmware waits 3 seconds but if in
>that time the frequency has changed by more than ±15 Hz the timer is reset.
>This seems to work very naturally now and tuning is easy and pleasant.
>
>Please give it a go and let me know what you think, if there are no issues
>this is the version I will go with.

495. Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-02 01:14:40 UTC
From: Matthew Robinson
Topic: 480 Message: 495

I will make the OOB changes once I have done the VFO mod.

Matt
VK6MSR

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Plenty of room, can I let someone else add them once the firmware is
proven?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Tony Olewicz" <hamfm1000@...>
> To: <mkars80@...>
> Sent: Wednesday, December 31, 2008 3:19 PM
> Subject: Re: [mkars80] Update - CW adapter and new firmware
>
>
> Good work Steve,
> Looking forward to the CW adaptor, and will be looking for a spare
PIC to
> program.
> Any space left on the PIC for band-edge warnings?
>
> Regards
> Tony
> G6XMO
>
> --- On Wed, 31/12/08, Steve Drury <g6alu@...> wrote:
>
> From: Steve Drury <g6alu@...>
> Subject: [mkars80] Update - CW adapter and new firmware
> To: mkars80@....uk
> Date: Wednesday, 31 December, 2008, 1:44 PM
>
>
>
>
>
>
>
> A prototype of the CW adapter is being tested by John M0TIF who has
> identified a few minor issues but is otherwise pleased with its
performance,
> I will modify the schematic and build a new prototype PCB before

ordering
> quantity for sale.
>
> To get the best out of the radio in CW mode I have made changes to
the PIC
> firmware which is now at version 2.0, anyone who can program the
PIC16F818
> is welcome to give it a try and give me feedback on its performance.
One
> requirement is that the VFO stability modification has been completed.
>
> Firmware differences:
> V1.1 - Huff and Puff output is driven by a PWM waveform, the problem
with
> this is it has a limited resolution - each step (it is 10 bit - 1024
steps)
> changes the frequency by a finite amount; when listening to a
constant tone
> (CW!) you can hear the frequency change, this is exaggerated by the
Huff and
> Puff having a resolution of 25Hz. This frequency change meant the radio
> couldn't be used very effectively on digi modes - PSK31 for example.
The
> tuning "bar" displays how much correction is being applied to the
VFO so its
> possible to judge when lock will be lost.
>
> V2.0 - When the VFO is tuned to the correct frequency the control
output
> goes high impedance, when it is off frequency the micro generates
short +Ve
> or -Ve going pulses depending on the correction needed, these are
filtered
> by the existing resistor / capacitor filter. The frequency still
wanders but
> slowly and not noticeably, this is also improved by the resolution
now being
> 5Hz. The tuning "bar" now displays frequency error; actual frequency
> compared with displayed frequency. In normal use the bar will be
central, if
> the Huff and Puff is about to lose lock the bar will move from the
centre to
> the left or right depending on the direction of drift.
>
> These firmware changes also make tuning more pleasant as the Huff
and Puff
> won't fight you. Once the new release has been proven I will offer
it as an
> upgrade for existing owners and include it in new kits.
>

> The software can be downloaded from the group files section.
>
> Regards,
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date:
12/30/2008
> 12:06 PM
>

496. RE: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-02 09:14:38 UTC
From: Ray Stringfellow
Topic: 480 Message: 496

Hi Tony

I also have this "feature" (it would be unfair to call it a
problem).

I find it's down to me being heavy handed and applying axial pressure on the
tuning knob. Pressing on the case has the same effect.

When in safe cracker mode it's fine and as you say a few 10s of Hz are not
noticeable.

Ray

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Liz & Tony Buckland
Sent: 01 January 2009 23:03
To: mkars80@...
Subject: Re: [mkars80] Re: Update - CW adapter and new firmware

Hello Steve,

Thanks for the new firmware. The tuning is
certainly more pleasant and natural, a great improvement.

Just a very small finding - I still find it a bit
tricky to get it to stop exactly on the frequency
I want ie 3.682000, even using the fine tuning (I
also have the 10:1 reduction drive), it seems to
jump +or - 10-15Hz either side then locks. This
is not really an issue as a few Hz either way is
not a problem and it could be my tuning of course :-).

73 Tony

[Non-text portions of this message have been removed]

497. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-02 09:46:06 UTC
From: Steve Drury
Topic: 480 Message: 497

Good morning / evening,

I find it tunes OK and doesn't jump with a standard set-up, getting the last 5Hz is a lottery though but I don't have any way improving on that other than increasing the resolution without displaying it. This probably wouldn't work too well as the control pulses would be longer and become evident as modulation on the VFO.

By looking through the software you may have noticed it generates two different correction pulse lengths depending how far off frequency it is - as the fine tune pulse is very short (approx. 20uS) it can't overcome much leakage in the filter capacitor which was specified as an electrolytic for cost reasons! If the frequency error is greater than 25Hz a long pulse (approx. 250uS) is applied, even in this situation the Huff and Puff performance is better than version V1.1. This situation is only likely to happen if the radio has been turned off for long periods.

I left it on 3,733MHz (local digi SSTV) all evening and pulled off many pictures, also had several PSK31 contacts into Europe without problem.

Let me know if you find any other issues.....

Regards,
Steve G6ALU

----- Original Message -----
From: "Ray Stringfellow" <g4tzr@...>
To: <mkars80@...>
Sent: Friday, January 02, 2009 9:14 AM
Subject: RE: [mkars80] Re: Update - CW adapter and new firmware

> Hi Tony
>
> I also have this "feature" (it would be unfair to call it a
> problem).
>
> I find it's down to me being heavy handed and applying axial pressure on
> the
> tuning knob. Pressing on the case has the same effect.
>
> When in safe cracker mode it's fine and as you say a few 10s of Hz are not
> noticeable.
>
> Ray
>
>
>

>
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Liz & Tony Buckland
> Sent: 01 January 2009 23:03
> To: mkars80@...
> Subject: Re: [mkars80] Re: Update - CW adapter and new firmware
>
>
>
> Hello Steve,
>
> Thanks for the new firmware. The tuning is
> certainly more pleasant and natural, a great improvement.
>
> Just a very small finding - I still find it a bit
> tricky to get it to stop exactly on the frequency
> I want ie 3.682000, even using the fine tuning (I
> also have the 10:1 reduction drive), it seems to
> jump +or - 10-15Hz either side then locks. This
> is not really an issue as a few Hz either way is
> not a problem and it could be my tuning of course :-).
>
> 73 Tony
>
>
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

498. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-02 09:47:03 UTC
From: Steve Drury
Topic: 480 Message: 498

Please do Matthew, also let me know how the code works for you.

Regards,
Steve G6ALU

----- Original Message -----
From: "Matthew Robinson" <scytale30@...>
To: <mkars80@...>
Sent: Friday, January 02, 2009 1:14 AM
Subject: [mkars80] Re: Update - CW adapter and new firmware

>
> I will make the OOB changes once I have done the VFO mod.
>
> Matt
> VK6MSR
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Plenty of room, can I let someone else add them once the firmware is
> proven?
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Tony Olewicz" <hamfm1000@...>
>> To: <mkars80@...>
>> Sent: Wednesday, December 31, 2008 3:19 PM
>> Subject: Re: [mkars80] Update - CW adapter and new firmware
>>
>>
>> Good work Steve,
>> Looking forward to the CW adaptor, and will be looking for a spare
> PIC to
>> program.
>> Any space left on the PIC for band-edge warnings?
>>
>> Regards
>> Tony
>> G6XMO
>>
>> --- On Wed, 31/12/08, Steve Drury <g6alu@...> wrote:
>>
>> From: Steve Drury <g6alu@...>
>> Subject: [mkars80] Update - CW adapter and new firmware
>> To: mkars80@...

>> Date: Wednesday, 31 December, 2008, 1:44 PM
>>
>>
>>
>>
>>
>>
>> A prototype of the CW adapter is being tested by John M0TIF who has
>> identified a few minor issues but is otherwise pleased with its
> performance,
>> I will modify the schematic and build a new prototype PCB before
> ordering
>> quantity for sale.
>>
>> To get the best out of the radio in CW mode I have made changes to
> the PIC
>> firmware which is now at version 2.0, anyone who can program the
> PIC16F818
>> is welcome to give it a try and give me feedback on its performance.
> One
>> requirement is that the VFO stability modification has been completed.
>>
>> Firmware differences:
>> V1.1 - Huff and Puff output is driven by a PWM waveform, the problem
> with
>> this is it has a limited resolution - each step (it is 10 bit - 1024
> steps)
>> changes the frequency by a finite amount; when listening to a
> constant tone
>> (CW!) you can hear the frequency change, this is exaggerated by the
> Huff and
>> Puff having a resolution of 25Hz. This frequency change meant the radio
>> couldn't be used very effectively on digi modes - PSK31 for example.
> The
>> tuning "bar" displays how much correction is being applied to the
> VFO so its
>> possible to judge when lock will be lost.
>>
>> V2.0 - When the VFO is tuned to the correct frequency the control
> output
>> goes high impedance, when it is off frequency the micro generates
> short +Ve
>> or -Ve going pulses depending on the correction needed, these are
> filtered
>> by the existing resistor / capacitor filter. The frequency still
> wanders but
>> slowly and not noticeably, this is also improved by the resolution
> now being
>> 5Hz. The tuning "bar" now displays frequency error; actual frequency
>> compared with displayed frequency. In normal use the bar will be

> central, if
>> the Huff and Puff is about to lose lock the bar will move from the
> centre to
>> the left or right depending on the direction of drift.
>>
>> These firmware changes also make tuning more pleasant as the Huff
> and Puff
>> won't fight you. Once the new release has been proven I will offer
> it as an
>> upgrade for existing owners and include it in new kits.
>>
>> The software can be downloaded from the group files section.
>>
>> Regards,
>> Steve G6ALU
>>
>> [Non-text portions of this message have been removed]
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>> [Non-text portions of this message have been removed]
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>> No virus found in this incoming message.
>> Checked by AVG - http://www.avg.com
>> Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date:
> 12/30/2008
>> 12:06 PM
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

499. RE: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-02 09:58:21 UTC
From: Liz & Tony Buckland
Topic: 480 Message: 499

Hello Ray,

I agree it's definitely not a problem just a "feature", as you aptly
put it, that needs a softer touch :-). Tuning around this afternoon
was fine and I think V2.1 of the firmware has made this rig a pleasure to use.

Incidentally, after tuning around this afternoon, the rig has been
left on receive for the last 8 hours with no drift at all and will be
left on overnight as a soak test.

73 Tony ZL3HAM

>Hi Tony
>
>I also have this "feature" (it would be unfair to call it a
>problem).
>
>I find it's down to me being heavy handed and applying axial pressure on the
>tuning knob. Pressing on the case has the same effect.
>
>When in safe cracker mode it's fine and as you say a few 10s of Hz are not
>noticeable.
>
>Ray
>
>-----Original Message-----
>From: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
>[mailto:mkars80@...] On Behalf
>Of Liz & Tony Buckland
>Sent: 01 January 2009 23:03
>To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
>Subject: Re: [mkars80] Re: Update - CW adapter and new firmware
>
>Hello Steve,
>
>Thanks for the new firmware. The tuning is
>certainly more pleasant and natural, a great improvement.
>
>Just a very small finding - I still find it a bit
>tricky to get it to stop exactly on the frequency
>I want ie 3.682000, even using the fine tuning (I
>also have the 10:1 reduction drive), it seems to
>jump +or - 10-15Hz either side then locks. This
>is not really an issue as a few Hz either way is
>not a problem and it could be my tuning of course :-).
>

>73 Tony

[Non-text portions of this message have been removed]

500. Ordering.....How?

Yahoo group: mkars80
Date: 2009-01-03 20:20:28 UTC
From: Ian
Topic: 500 Message: 500

Hi All,
I saw this kit ant the Donnington rally last year. I really wish
I'd bought one now!
I'd really like to order one.
How do I go about doing this please?
73,
Ian G1DRP

501. Re: [mkars80] Ordering.....How?

Yahoo group: mkars80
Date: 2009-01-03 23:38:40 UTC
From: Steve Drury
Topic: 500 Message: 501

Hello Ian,

The kits cost ?45 including an un-drilled case, postage in the UK is ?3 and they are available from us!

There are two methods of paying, by cheque; please make a check Payable to Radio-Kits for ?48 and send to:

Radio-Kits
25 Crosslands,
Stantonbury,
Milton Keynes,
Bucks.
MK14 6AY

OR by Paypal, please note we pass on the Paypal commission charge of ?2. If you would like to pay this way please transfer ?50 to our Paypal account val@... .

For overseas readers prices in this mail are in GBP (the pound sign may be converted by email software) and postage is GBP 4 to Europe and GBP 6 for rest of the world.

Regards,
Steve G6ALU

----- Original Message -----
From: "Ian" <i.m.hand@...>
To: <mkars80@...>
Sent: Saturday, January 03, 2009 8:20 PM
Subject: [mkars80] Ordering.....How?

> Hi All,
> I saw this kit ant the Donnington rally last year. I really wish
> I'd bought one now!
> I'd really like to order one.
> How do I go about doing this please?
> 73,
> Ian G1DRP
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

502. Programmer

Yahoo group: mkars80
Date: 2009-01-04 00:17:33 UTC
From: peezetje
Topic: 502 Message: 502

Hello to the group,

Perhaps somebody knows. Is it possible to (re)program the 16F818 with
the Velleman K8076 or do I need a different programmer?

TIA

73, Tony PA0PZ

503. Re: [mkars80] Programmer

Yahoo group: mkars80
Date: 2009-01-04 05:36:55 UTC
From: g6alu@tiscali.co.uk
Topic: 502 Message: 503

Tony,

I've looked at the K8076 device list and it isn't there so doesn't
look likely.

In a previous email I gave a URL for the DL4YHF programmer -
unfortunately the QSL web is down but here is the mirror site:

http://freenet-homepage.de/dl4yhf/winpicpr.html

Steve G6ALU

>----Original Message----
>From: asmld@...
>Date: 04/01/2009 0:17
>To: <mkars80@...>
>Subj: [mkars80] Programmer
>
>Hello to the group,
>
>Perhaps somebody knows. Is it possible to (re)program the 16F818 with
>the Velleman K8076 or do I need a different programmer?
>
>TIA
>
>73, Tony PA0PZ
>
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50% off Norton Security 2009 - http://www.tiscali.co.uk/security

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504. Re: Programmer

Yahoo group: mkars80
Date: 2009-01-04 13:19:22 UTC
From: John
Topic: 502 Message: 504

Hi Tony,
I'm not sure if this helps but I bought a programmer from a guy in China via Ebay last November and the service was good as was the unit. I just checked and they are still available at the same price.

It's connected via a USB port so there is no need for any external supply although one can be connected if the port cannot supply more than 200Ma. It has a 40 ZIF socket so it can handle quite a lot of devices.The software is quite reasonable too.

If you would like any other info please let me know.

It works out at about 38 Euro.
73,
John.

--- In mkars80@..., "peezetje" <asmld@...> wrote:
>
> Hello to the group,
>
> Perhaps somebody knows. Is it possible to (re)program the 16F818 with
> the Velleman K8076 or do I need a different programmer?
>
> TIA
>
> 73, Tony PA0PZ
>

505. MKARS 80 in use.

Yahoo group: mkars80
Date: 2009-01-04 16:09:02 UTC
From: tedg4ozg
Topic: 505 Message: 505

I built my MKARS 80 in Aug/Sept having done almost no construction for years and it worked first time, a tribute to Steve G6ALU, it was almost painting with numbers and you couldn't really go wrong. Steve had a look when he came to the Kings Lynn Club in September and pronounced it fit. It has rekindled my enthusiasm and gets used much more than the IC706. I have worked GM,GD,GW,EI,F,DF,PA,SN,OZ,ON and a lot of G's and M's, several other MKARS 80 users mostly on the 2 nets we had but also some local to me and also Brian G8DIU who called me out of the blue.I have also been portable twice with a fishing pole vertical and had good reports. Its a bit of a struggle sometimes but surprisingly a lot of stations do hear me.
After chasing the frequency a lot for 3 months,yesterday I fitted the NPO caps that Steve sent me and this morning switched on at 7.15 and after an hour it had drifted high by just 2kHz. I then used it on a net for another hour and only had to adjust the frequency once, but the overs were quite short, a big improvement. One station in Southampton recorded me and played it back commenting that the audio was very good!
My QTH is Kings Lynn, Norfolk and the antenna is a 80/40 trap dipole at 5 metres.
If anyone can't make up their minds about building the MKARS 80,just do it, if I can, you can, and have some fun.
All the best, Ted G4OZG

506. Re: [mkars80] MKARS 80 in use.

Yahoo group: mkars80
Date: 2009-01-04 16:20:19 UTC
From: Steve Drury
Topic: 505 Message: 506

Thanks for the glowing report Ted, you will find the new firmware gives
further improvement being much "nicer" to tune.

I'm holding off releasing programmed chips though until we have a few hours
of testing with different radios and operators - this software is a big
change from the existing release.

Regards,
Steve G6ALU

----- Original Message -----
From: "tedg4ozg" <ted.haskett@...>
To: <mkars80@...>
Sent: Sunday, January 04, 2009 4:09 PM
Subject: [mkars80] MKARS 80 in use.

>I built my MKARS 80 in Aug/Sept having done almost no construction
> for years and it worked first time, a tribute to Steve G6ALU, it was
> almost painting with numbers and you couldn't really go wrong. Steve
> had a look when he came to the Kings Lynn Club in September and
> pronounced it fit. It has rekindled my enthusiasm and gets used much
> more than the IC706. I have worked GM,GD,GW,EI,F,DF,PA,SN,OZ,ON and a
> lot of G's and M's, several other MKARS 80 users mostly on the 2 nets
> we had but also some local to me and also Brian G8DIU who called me
> out of the blue.I have also been portable twice with a fishing pole
> vertical and had good reports. Its a bit of a struggle sometimes but
> surprisingly a lot of stations do hear me.
> After chasing the frequency a lot for 3 months,yesterday I fitted the
> NPO caps that Steve sent me and this morning switched on at 7.15 and
> after an hour it had drifted high by just 2kHz. I then used it on a
> net for another hour and only had to adjust the frequency once, but
> the overs were quite short, a big improvement. One station in
> Southampton recorded me and played it back commenting that the audio
> was very good!
> My QTH is Kings Lynn, Norfolk and the antenna is a 80/40 trap dipole
> at 5 metres.
> If anyone can't make up their minds about building the MKARS 80,just
> do it, if I can, you can, and have some fun.
> All the best, Ted G4OZG
>
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>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

507. Re: [mkars80] Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-04 16:41:57 UTC
From: Steve Drury
Topic: 480 Message: 507

Further update on the CW adapter...

It was suggested (by Ray G4TZR again!) that I might include a keyer (Iambic keyer for dot and dash paddles) in the CW adapter circuit, to me a keyer is not really necessary so I didn't want to increase the kit cost by incorporating one. However having laid out the PCB I realise there is some wasted space in the corner so I have a plan......

I intend to incorporate the PCB for an Iambic A and B memory keyer designed by DL4YHF (see http://freenet-homepage.de/dl4yhf/pic_key.html), components for this would be a COST option so the if you don't want it you don't pay for it! The keyer will be snipped out of the PCB and used as a stand-alone module, I will leave it up to the constructor to decide how and what it is used for - it will be compatible with the CW adapter though.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Wednesday, December 31, 2008 1:44 PM
Subject: [mkars80] Update - CW adapter and new firmware

>A prototype of the CW adapter is being tested by John M0TIF who has
>identified a few minor issues but is otherwise pleased with its
>performance, I will modify the schematic and build a new prototype PCB
>before ordering quantity for sale.
>
> To get the best out of the radio in CW mode I have made changes to the PIC
> firmware which is now at version 2.0, anyone who can program the PIC16F818
> is welcome to give it a try and give me feedback on its performance. One
> requirement is that the VFO stability modification has been completed.
>
> Firmware differences:
> V1.1 - Huff and Puff output is driven by a PWM waveform, the problem with
> this is it has a limited resolution - each step (it is 10 bit - 1024
> steps) changes the frequency by a finite amount; when listening to a
> constant tone (CW!) you can hear the frequency change, this is exaggerated
> by the Huff and Puff having a resolution of 25Hz. This frequency change
> meant the radio couldn't be used very effectively on digi modes - PSK31
> for example. The tuning "bar" displays how much correction is being
> applied to the VFO so its possible to judge when lock will be lost.
>
> V2.0 - When the VFO is tuned to the correct frequency the control output
> goes high impedance, when it is off frequency the micro generates short
> +Ve or -Ve going pulses depending on the correction needed, these are

> filtered by the existing resistor / capacitor filter. The frequency still
> wanders but slowly and not noticeably, this is also improved by the
> resolution now being 5Hz. The tuning "bar" now displays frequency error;
> actual frequency compared with displayed frequency. In normal use the bar
> will be central, if the Huff and Puff is about to lose lock the bar will
> move from the centre to the left or right depending on the direction of
> drift.
>
> These firmware changes also make tuning more pleasant as the Huff and Puff
> won't fight you. Once the new release has been proven I will offer it as
> an upgrade for existing owners and include it in new kits.
>
> The software can be downloaded from the group files section.
>
> Regards,
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008
12:06 PM

508. Re: [mkars80] Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-04 19:21:40 UTC
From: Liz & Tony Buckland
Topic: 480 Message: 508

Hello Steve,

An excellent idea to have the Iambic keyer as an option. Another
place to look is <mailto:k1elsys@...>k1elsys@... , for the
K12 and it uses less components. Not sure what the cost difference
would be though.

73 Tony ZL3HAM

At 05:41 5/01/2009, you wrote:

>Further update on the CW adapter...
>
>It was suggested (by Ray G4TZR again!) that I might include a keyer (Iambic
>keyer for dot and dash paddles) in the CW adapter circuit, to me a keyer is
>not really necessary so I didn't want to increase the kit cost by
>incorporating one. However having laid out the PCB I realise there is some
>wasted space in the corner so I have a plan......
>
>I intend to incorporate the PCB for an Iambic A and B memory keyer designed
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><http://freenet-homepage.de/dl4yhf/pic_key.html>http://freenet-homepage.de/dl4yhf/pic_key
.html
>), components
>for this would be a COST option so the if you don't want it you don't pay
>for it! The keyer will be snipped out of the PCB and used as a stand-alone
>module, I will leave it up to the constructor to decide how and what it is
>used for - it will be compatible with the CW adapter though.
>
>Steve G6ALU
>
>----- Original Message -----
>From: "Steve Drury" <<mailto:g6alu%40tiscali.co.uk>g6alu@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Wednesday, December 31, 2008 1:44 PM
>Subject: [mkars80] Update - CW adapter and new firmware
>
> >A prototype of the CW adapter is being tested by John M0TIF who has
> >identified a few minor issues but is otherwise pleased with its
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> >
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> > requirement is that the VFO stability modification has been completed.

> >
> > Firmware differences:
> > V1.1 - Huff and Puff output is driven by a PWM waveform, the problem with
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> > V2.0 - When the VFO is tuned to the correct frequency the control output
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> > The software can be downloaded from the group files section.
> >
> > Regards,
> > Steve G6ALU
> >
> > [Non-text portions of this message have been removed]
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>
>No virus found in this incoming message.
>Checked by AVG - <http://www.avg.com>http://www.avg.com
>Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date: 12/30/2008
>12:06 PM
>
>

[Non-text portions of this message have been removed]

509. Re: [mkars80] Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-04 20:01:46 UTC
From: Steve Drury
Topic: 480 Message: 509

It looks to be very sophisticated but is too expensive at $10 landed.

Steve G6ALU

----- Original Message -----
From: "Liz & Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Sunday, January 04, 2009 7:21 PM
Subject: Re: [mkars80] Update - CW adapter and new firmware

> Hello Steve,
>
> An excellent idea to have the Iambic keyer as an option. Another
> place to look is <mailto:k1elsys@...>k1elsys@... , for the
> K12 and it uses less components. Not sure what the cost difference
> would be though.
>
> 73 Tony ZL3HAM
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>
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>>incorporating one. However having laid out the PCB I realise there is some
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>>I intend to incorporate the PCB for an Iambic A and B memory keyer
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>>by DL4YHF (see
>><http://freenet-homepage.de/dl4yhf/pic_key.html>http://freenet-homepage.de/dl4yhf/pic_key.html
>>), components
>>for this would be a COST option so the if you don't want it you don't pay
>>for it! The keyer will be snipped out of the PCB and used as a stand-alone
>>module, I will leave it up to the constructor to decide how and what it is
>>used for - it will be compatible with the CW adapter though.
>>
>>Steve G6ALU
>>
>>----- Original Message -----

>>From: "Steve Drury" <<mailto:g6alu%40tiscali.co.uk>g6alu@...>
>>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>>Sent: Wednesday, December 31, 2008 1:44 PM
>>Subject: [mkars80] Update - CW adapter and new firmware
>>
>> >A prototype of the CW adapter is being tested by John M0TIF who has
>> >identified a few minor issues but is otherwise pleased with its
>> >performance, I will modify the schematic and build a new prototype PCB
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>> > PIC
>> > firmware which is now at version 2.0, anyone who can program the
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>> > is welcome to give it a try and give me feedback on its performance.
>> > One
>> > requirement is that the VFO stability modification has been completed.
>> >
>> > Firmware differences:
>> > V1.1 - Huff and Puff output is driven by a PWM waveform, the problem
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>> > steps) changes the frequency by a finite amount; when listening to a
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>> > V2.0 - When the VFO is tuned to the correct frequency the control
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>> > +Ve or -Ve going pulses depending on the correction needed, these are
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>> > wanders but slowly and not noticeably, this is also improved by the
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>> > The software can be downloaded from the group files section.
>> >
>> > Regards,
>> > Steve G6ALU
>> >
>> > [Non-text portions of this message have been removed]
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>>
>>--
>>
>>No virus found in this incoming message.
>>Checked by AVG - <http://www.avg.com>http://www.avg.com
>>Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date:
>>12/30/2008
>>12:06 PM
>>
>>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

510. Re: [mkars80] Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-04 20:37:57 UTC
From: Liz & Tony Buckland
Topic: 480 Message: 510

Understood Steve, it was only a thought :-). The DL4YHF keyer looks
just as good and it does use PIC chips which can be reprogrammed of course.

73 Tony

At 09:01 5/01/2009, you wrote:

>It looks to be very sophisticated but is too expensive at $10 landed.
>
>Steve G6ALU
>
>----- Original Message -----
>From: "Liz & Tony Buckland"
><<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Sunday, January 04, 2009 7:21 PM
>Subject: Re: [mkars80] Update - CW adapter and new firmware
>
> > Hello Steve,
> >
> > An excellent idea to have the Iambic keyer as an option. Another
> > place to look is
> <mailto:k1elsys@...><mailto:k1elsys%40aol.com>k1elsys@... , for the
> > K12 and it uses less components. Not sure what the cost difference
> > would be though.
> >
> > 73 Tony ZL3HAM
> >
> >
> > At 05:41 5/01/2009, you wrote:
> >
> >>Further update on the CW adapter...
> >>
> >>It was suggested (by Ray G4TZR again!) that I might include a keyer
> >>(Iambic
> >>keyer for dot and dash paddles) in the CW adapter circuit, to me a keyer
> >>is
> >>not really necessary so I didn't want to increase the kit cost by
> >>incorporating one. However having laid out the PCB I realise there is some
> >>wasted space in the corner so I have a plan......
> >>
> >>I intend to incorporate the PCB for an Iambic A and B memory keyer
> >>designed
> >>by DL4YHF (see
> >><<http://freenet-homepage.de/dl4yhf/pic_key.html>http://freenet-ho
> mepage.de/dl4yhf/pic_key.html>http://freenet-homepage.de/dl4yhf/pic_key.html

> >>), components
> >>for this would be a COST option so the if you don't want it you don't pay
> >>for it! The keyer will be snipped out of the PCB and used as a stand-alone
> >>module, I will leave it up to the constructor to decide how and what it is
> >>used for - it will be compatible with the CW adapter though.
> >>
> >>Steve G6ALU
> >>
> >>----- Original Message -----
> >>From: "Steve Drury"
> <<mailto:g6alu%40tiscali.co.uk><mailto:g6alu%40tiscali.co.uk>g6alu@...>
> >>To:
> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> >>Sent: Wednesday, December 31, 2008 1:44 PM
> >>Subject: [mkars80] Update - CW adapter and new firmware
> >>
> >> >A prototype of the CW adapter is being tested by John M0TIF who has
> >> >identified a few minor issues but is otherwise pleased with its
> >> >performance, I will modify the schematic and build a new prototype PCB
> >> >before ordering quantity for sale.
> >> >
> >> > To get the best out of the radio in CW mode I have made changes to the
> >> > PIC
> >> > firmware which is now at version 2.0, anyone who can program the
> >> > PIC16F818
> >> > is welcome to give it a try and give me feedback on its performance.
> >> > One
> >> > requirement is that the VFO stability modification has been completed.
> >> >
> >> > Firmware differences:
> >> > V1.1 - Huff and Puff output is driven by a PWM waveform, the problem
> >> > with
> >> > this is it has a limited resolution - each step (it is 10 bit - 1024
> >> > steps) changes the frequency by a finite amount; when listening to a
> >> > constant tone (CW!) you can hear the frequency change, this is
> >> > exaggerated
> >> > by the Huff and Puff having a resolution of 25Hz. This frequency change
> >> > meant the radio couldn't be used very effectively on digi modes - PSK31
> >> > for example. The tuning "bar" displays how much correction is being
> >> > applied to the VFO so its possible to judge when lock will be lost.
> >> >
> >> > V2.0 - When the VFO is tuned to the correct frequency the control
> >> > output
> >> > goes high impedance, when it is off frequency the micro generates short
> >> > +Ve or -Ve going pulses depending on the correction needed, these are
> >> > filtered by the existing resistor / capacitor filter. The frequency
> >> > still
> >> > wanders but slowly and not noticeably, this is also improved by the
> >> > resolution now being 5Hz. The tuning "bar" now displays frequency
> >> > error;

> >> > actual frequency compared with displayed frequency. In normal use the
> >> > bar
> >> > will be central, if the Huff and Puff is about to lose lock the bar
> >> > will
> >> > move from the centre to the left or right depending on the direction of
> >> > drift.
> >> >
> >> > These firmware changes also make tuning more pleasant as the Huff and
> >> > Puff
> >> > won't fight you. Once the new release has been proven I will offer it
> >> > as
> >> > an upgrade for existing owners and include it in new kits.
> >> >
> >> > The software can be downloaded from the group files section.
> >> >
> >> > Regards,
> >> > Steve G6ALU
> >> >
> >> > [Non-text portions of this message have been removed]
> >> >
> >> >
> >> > ------------------------------------
> >> >
> >> > Yahoo! Groups Links
> >> >
> >> >
> >> >
> >> >
> >>
> >>--
> >>
> >>No virus found in this incoming message.
> >>Checked by AVG - <<http://www.avg.com>http://www.avg.com>http://www.avg.com
> >>Version: 8.0.176 / Virus Database: 270.10.1/1869 - Release Date:
> >>12/30/2008
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> >>
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> >
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> > [Non-text portions of this message have been removed]
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> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
>
>--

>
>Internal Virus Database is out of date.
>Checked by AVG - <http://www.avg.com>http://www.avg.com
>Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
>8:44 AM
>
>

[Non-text portions of this message have been removed]

511. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-05 02:13:36 UTC
From: rOn
Topic: 480 Message: 511

Steve

I am embarrassed to say I bought your mkars80 and have not yet started to build it. It was a while ago!

I've been seeing some mods and firmware changes on the reflector. I would like to find out what my kit doesn't have and buy updated parts before I start to build it.

Thanks in advance

rOn Pfeiffer

[Non-text portions of this message have been removed]

512. Re: [mkars80] Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-05 13:51:33 UTC
From: g6alu@tiscali.co.uk
Topic: 480 Message: 512

Hi Ron,

Two changes have been made; a change of two capacitors (C59 & C60) in the VFO from Mylar types to 1nF NP0 ceramic, this mod improves temperature stability. I have recently improved the firmware but this isn't an escencial change.

I will announce on the group shortly how I intend to handle upgrades, I will though include the capacitors for anyone wanting the micro upgrade.

Regards,
Steve G6ALU

>----Original Message----
>From: w2ctx@...
>Date: 05/01/2009 2:13
>To: <mkars80@...>
>Subj: Re: [mkars80] Re: Update - CW adapter and new firmware
>
>Steve
>
>I am embarrassed to say I bought your mkars80 and have not yet
started
>to build it. It was a while ago!
>
>I've been seeing some mods and firmware changes on the reflector. I
would like
>to find out what my kit doesn't have and buy updated parts before I
start to
>build it.
>
>Thanks in advance
>
>rOn Pfeiffer
>
>
>[Non-text portions of this message have been removed]
>
>
>------------------------------------
>
>Yahoo! Groups Links
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>

>

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---

513. Rallies

Yahoo group: mkars80
Date: 2009-01-05 16:19:09 UTC
From: John
Topic: 513 Message: 513

Hi Steve,

Have you plans to attend any rallies this year with a stand like Donnington?

My copy of Practical Wireless arrived this morning, I look forward to the review next month [:D]

Happy New Year,

73,

John

[Non-text portions of this message have been removed]

514. Re: [mkars80] Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-05 19:48:55 UTC
From: pa0rcl
Topic: 480 Message: 514

Hello Steve and all,

Since the firmware is under review at present, I wonder if it would be possible to make a slight cosmetic modification to it. I would very much like another decimal point in the frequency display.
Presently, the display shows only one, to separate the MHz from the kHz. I would like to see one between kHz and Hz. For instance 3.755.200 instead of 3.755200.
I know that the subject line of the LCD has only 16 characters, but the indication "LSB" could be left out, or "MHz", because this is not vital information.
Personally, I find a display with all decimal points easier to read. and I know from some of my fellow hams that they feel the same.
It's only a minor point, I do realise that. Could it be incorporated in a new firmware release?

I still enjoy my MKARS80's very much, and plan to build my third one very soon now. I'll stick to varactor tuning, by the way. In my second MKARS80 I've incorporated my version of Jim's (VE3XJ) circuit whereby the 80m band is split up into three 100 kHz segments that can be switch selected. In that way, the 10-turn pot virtually becomes a 30-turn pot. This makes tuning even more pleasant. I don't need the fine tuning knob any longer and have used the front panel position for a band switch. I sure do look forward to the new firmware release as tuning than becomes even easier.

Enjoy the hobby, thanks and 73

Ron pa0rcl

[Non-text portions of this message have been removed]

515. Re: MKARS 80 in use.

Yahoo group: mkars80
Date: 2009-01-05 21:39:11 UTC
From: Ian
Topic: 505 Message: 515

Excellent mini review Ted!
I'm about to order one myself.
I look forward to working you and other members of this group.

73,
Ian G1DRP

--- In mkars80@..., "tedg4ozg" <ted.haskett@...> wrote:
>
> I built my MKARS 80 in Aug/Sept having done almost no construction
> for years and it worked first time, a tribute to Steve G6ALU, it
was
> almost painting with numbers and you couldn't really go wrong.
Steve
> had a look when he came to the Kings Lynn Club in September and
> pronounced it fit. It has rekindled my enthusiasm and gets used
much
> more than the IC706. I have worked GM,GD,GW,EI,F,DF,PA,SN,OZ,ON and
a
> lot of G's and M's, several other MKARS 80 users mostly on the 2
nets
> we had but also some local to me and also Brian G8DIU who called me
> out of the blue.I have also been portable twice with a fishing pole
> vertical and had good reports. Its a bit of a struggle sometimes
but
> surprisingly a lot of stations do hear me.
> After chasing the frequency a lot for 3 months,yesterday I fitted
the
> NPO caps that Steve sent me and this morning switched on at 7.15
and
> after an hour it had drifted high by just 2kHz. I then used it on
a
> net for another hour and only had to adjust the frequency once, but
> the overs were quite short, a big improvement. One station in
> Southampton recorded me and played it back commenting that the
audio
> was very good!
> My QTH is Kings Lynn, Norfolk and the antenna is a 80/40 trap
dipole
> at 5 metres.
> If anyone can't make up their minds about building the MKARS
80,just
> do it, if I can, you can, and have some fun.
> All the best, Ted G4OZG
>

516. Re: Update - CW adapter and new firmware

Yahoo group: mkars80
Date: 2009-01-05 23:24:28 UTC
From: g3oth
Topic: 480 Message: 516

--- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> Hello Steve and all,
>
> Since the firmware is under review at present, I wonder if it would be possible to make a slight cosmetic modification to it. I would very much like another decimal point in the frequency display.
> Presently, the display shows only one, to separate the MHz from the kHz. I would like to see one between kHz and Hz. For instance 3.755.200 instead of 3.755200.
> I know that the subject line of the LCD has only 16 characters, but the indication "LSB" could be left out, or "MHz", because this is not vital information.
> Personally, I find a display with all decimal points easier to read. and I know from some of my fellow hams that they feel the same.
> It's only a minor point, I do realise that. Could it be incorporated in a new firmware release?
>

Hello Ron
I tend to agree with you but why not go for 3755.200 instead.
That way only the position of the decimal point is changed and as only one is needed, LSB can still be retained and MHz changed to KHz.
I know that Steve mentioned sometime earlier he might want to display either LSB or CW to indicate modes, so what do you say Steve ?

73 de Charles G3OTH

517. Re: Programmer

Yahoo group: mkars80
Date: 2009-01-05 23:59:47 UTC
From: g3oth
Topic: 502 Message: 517

Steve, I have been tempted several times to purchase the K8048
Velleman PIC programming kit from Maplins, which I note supports the
PIC16F818 you use for trhe MKARS80.
I have never been involved with PIC programming before, but I am
trying to read through Cliff (G8CQZ) Powlesland's book PIC Basics
(RSGB) to find out what is involved.
It would appear that this Velleman kit apart from a PIC has
everything necessary (hardware, compiler and loader).
Looking at the files section in this forum I see you have recently
put up two zipped up files.
One dated December 2008, another January 2009.
I see from memory the earlier one contains 4 files with .asm, .HEX,
inc (x2) extensions
The later one has 5 files .url, .mcw, .HEX, .asm, .inc
I looked at these with notepad and saw in the HEX files something
that I recognise as probably being the file needed for programming
the PIC, but what are the other files used for or are they in an
assembler language, or text prompts, as to what is going on ?
It is all Double Dutch to me (sorry Ron) but can you please lucidate ?
What programmer do you use and for the record what program language
C, C++ or other files are needed.
Sometime I am going to have to face all this if I am ever to get my
Star started.
73 de Charles G3OTH

--- In mkars80@..., "John" <john.g4gcl@...> wrote:
>
> Hi Tony,
> I'm not sure if this helps but I bought a programmer from a guy in
> China via Ebay last November and the service was good as was the
> unit. I just checked and they are still available at the same price.
>
> It's connected via a USB port so there is no need for any external
> supply although one can be connected if the port cannot supply more
> than 200Ma. It has a 40 ZIF socket so it can handle quite a lot of
> devices.The software is quite reasonable too.
>
> If you would like any other info please let me know.
>
> It works out at about 38 Euro.
> 73,
> John.
>
> --- In mkars80@..., "peezetje" <asmld@> wrote:
> >

> > Hello to the group,
> >
> > Perhaps somebody knows. Is it possible to (re)program the 16F818
> with
> > the Velleman K8076 or do I need a different programmer?
> >
> > TIA
> >
> > 73, Tony PA0PZ
> >
>

518. Re: [mkars80] Re: Programmer

Yahoo group: mkars80
Date: 2009-01-06 08:28:22 UTC
From: g6alu@tiscali.co.uk
Topic: 502 Message: 518

Charles,

I advise the use of Microchip's own development environment MPLAB
which can be obtained free of charge for www.microchip.com but you will
need broadband to download it.

.asm files are the source (text files)
.hex is the code ready to be programmed
.inc are assembler files to be included in the main assembler file

Other files are generated by MPLAB.

Regards,
Steve G6ALU

>----Original Message----
>From: g3oth@...
>Date: 05/01/2009 23:59
>To: <mkars80@...>
>Subj: [mkars80] Re: Programmer
>
>Steve, I have been tempted several times to purchase the K8048
>Velleman PIC programming kit from Maplins, which I note supports the
>PIC16F818 you use for trhe MKARS80.
>I have never been involved with PIC programming before, but I am
>trying to read through Cliff (G8CQZ) Powlesland's book PIC Basics
>(RSGB) to find out what is involved.
>It would appear that this Velleman kit apart from a PIC has
>everything necessary (hardware, compiler and loader).
>Looking at the files section in this forum I see you have recently
>put up two zipped up files.
>One dated December 2008, another January 2009.
>I see from memory the earlier one contains 4 files with .asm, .HEX,
>inc (x2) extensions
>The later one has 5 files .url, .mcw, .HEX, .asm, .inc
>I looked at these with notepad and saw in the HEX files something
>that I recognise as probably being the file needed for programming
>the PIC, but what are the other files used for or are they in an
>assembler language, or text prompts, as to what is going on ?
>It is all Double Dutch to me (sorry Ron) but can you please lucidate
?
>What programmer do you use and for the record what program language
>C, C++ or other files are needed.
>Sometime I am going to have to face all this if I am ever to get my
>Star started.
>73 de Charles G3OTH

>
>
>--- In mkars80@..., "John" <john.g4gcl@...> wrote:
>>
>> Hi Tony,
>> I'm not sure if this helps but I bought a programmer from a guy in
>> China via Ebay last November and the service was good as was the
>> unit. I just checked and they are still available at the same
price.
>>
>> It's connected via a USB port so there is no need for any external
>> supply although one can be connected if the port cannot supply
more
>> than 200Ma. It has a 40 ZIF socket so it can handle quite a lot of
>> devices.The software is quite reasonable too.
>>
>> If you would like any other info please let me know.
>>
>> It works out at about 38 Euro.
>> 73,
>> John.
>>
>> --- In mkars80@..., "peezetje" <asmld@> wrote:
>> >
>> > Hello to the group,
>> >
>> > Perhaps somebody knows. Is it possible to (re)program the 16F818
>> with
>> > the Velleman K8076 or do I need a different programmer?
>> >
>> > TIA
>> >
>> > 73, Tony PA0PZ
>> >
>>
>
>
>
>------------------------------------
>
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>

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_____

519. Re:MKARS 80 in use.

Yahoo group: mkars80
Date: 2009-01-06 10:20:05 UTC
From: John Housego
Topic: 505 Message: 519

Nice to hear Ted's fine experiences with the MKARS really do agree with all his comments on this great little transceiver it is indeed a fine tribute to Steve G6ALU in all aspects. I have worked pretty much the same areas as Ted plus a few RA, PA, OH and HA.

Recently having the chance to try Steve's CW adaptor with narrow filter It worked very well indeed and its a very exciting prospect, once the final version is available, that the MKARS80 will have CW mode.

John (M0TIF)

[Non-text portions of this message have been removed]

520. New firmware

Yahoo group: mkars80
Date: 2009-01-06 12:12:36 UTC
From: pa0rcl
Topic: 520 Message: 520

Hello Charles,

As I remarked the extra decimal point is only a minor issue. Unlike you Britains, continental Europeans have become used to the decimal system for ages. Even all my Japanese rigs display 3755200 as 3.755.200. This is the only correct way. For my sake, the characters "MHz" on the MKARS80's display could be left out and an extra deceimal point added if the first three positions should remain to display the mode.
I will probably have do dive into PIC-programming (it's Double Dutch to me also, no offense taken, the French even say that Dutch is not a language but a throat disease) myself to implement this desire. But as I wrote to Steve I'm from the tube era and I'm not sure if I'll ever manage to master PICs. However, I intend to order a Velleman PIC-programmer and I've already downloaded MPLAB as indicated by Steve. So far so good!
BTW, my remark should not be seen as criticism. I'm very satisfied with my MKARS80's and Steve has surely done a wonderful job, I concur with all other posts on this. In addition, Steve's support is admirable, not to mention his patience!

73

Ron pa0rcl

From: g3oth
To: mkars80@...
Sent: Tuesday, January 06, 2009 12:24 AM
Subject: [mkars80] Re: Update - CW adapter and new firmware

Hello Ron
I tend to agree with you but why not go for 3755.200 instead.
That way only the position of the decimal point is changed and as
only one is needed, LSB can still be retained and MHz changed to KHz.
I know that Steve mentioned sometime earlier he might want to display
either LSB or CW to indicate modes, so what do you say Steve ?

73 de Charles G3OTH

[Non-text portions of this message have been removed]

521. Re: Programmer

Yahoo group: mkars80
Date: 2009-01-06 14:28:11 UTC
From: g3oth
Topic: 502 Message: 521

Thanks Steve
I have since downloaded MPLAB IDE v8.10 successfully and installed it on my PC.
I was able to view your .asm, .hex, .inc files with it, but don't suppose I can do much more until I get some hardware, you didn't say anything about what you thought about the Maplin kit, it's available for about £21 according to the catalogue I have here.
Meanwhile I will try to fathom out what all the instructions are about, that should keep me busy for quite a while Hi Hi.
73 de Charles G3OTH

-- In mkars80@yahoogroups.co.uk, "g6alu@..." <g6alu@...> wrote:
>
> Charles,
>
> I advise the use of Microchip's own development environment MPLAB
> which can be obtained free of charge for www.microchip.com but you will
> need broadband to download it.
>
> .asm files are the source (text files)
> .hex is the code ready to be programmed
> .inc are assembler files to be included in the main assembler file
>
> Other files are generated by MPLAB.
>
> Regards,
> Steve G6ALU
>
> >----Original Message----
> >From: g3oth@...
> >Date: 05/01/2009 23:59
> >To: <mkars80@...>
> >Subj: [mkars80] Re: Programmer
> >
> >Steve, I have been tempted several times to purchase the K8048
> >Velleman PIC programming kit from Maplins, which I note supports the
> >PIC16F818 you use for trhe MKARS80.
> >I have never been involved with PIC programming before, but I am
> >trying to read through Cliff (G8CQZ) Powlesland's book PIC Basics
> >(RSGB) to find out what is involved.
> >It would appear that this Velleman kit apart from a PIC has
> >everything necessary (hardware, compiler and loader).
> >Looking at the files section in this forum I see you have recently

> >put up two zipped up files.
> >One dated December 2008, another January 2009.
> >I see from memory the earlier one contains 4 files
with .asm, .HEX,
> >inc (x2) extensions
> >The later one has 5 files .url, .mcw, .HEX, .asm, .inc
> >I looked at these with notepad and saw in the HEX files something
> >that I recognise as probably being the file needed for programming
> >the PIC, but what are the other files used for or are they in an
> >assembler language, or text prompts, as to what is going on ?
> >It is all Double Dutch to me (sorry Ron) but can you please
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> ?
> >What programmer do you use and for the record what program
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> >C, C++ or other files are needed.
> >Sometime I am going to have to face all this if I am ever to get
my
> >Star started.
> >73 de Charles G3OTH
> >
> >
> >--- In mkars80@..., "John" <john.g4gcl@> wrote:
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> >> Hi Tony,
> >> I'm not sure if this helps but I bought a programmer from a guy
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> >> China via Ebay last November and the service was good as was the
> >> unit. I just checked and they are still available at the same
> price.
> >>
> >> It's connected via a USB port so there is no need for any
external
> >> supply although one can be connected if the port cannot supply
> more
> >> than 200Ma. It has a 40 ZIF socket so it can handle quite a lot
of
> >> devices.The software is quite reasonable too.
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> >> 73,
> >> John.
> >>
> >> --- In mkars80@..., "peezetje" <asmld@> wrote:
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> >> > Hello to the group,
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> >> > Perhaps somebody knows. Is it possible to (re)program the

16F818
> >> with
> >> > the Velleman K8076 or do I need a different programmer?
> >> >
> >> > TIA
> >> >
> >> > 73, Tony PA0PZ
> >> >
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>

522. Re: New firmware

Yahoo group: mkars80
Date: 2009-01-06 15:00:58 UTC
From: g3oth
Topic: 520 Message: 522

FB Ron
I must admit I hadn't noticed whether my ancient Yaesu digital rigs displayed the two decimal points or not. I know they display the decimal point before the 100 Hz digit, but guess you are right because I seem to remember the MHz and KHZ digits are separated somehow. I must take note next time I switch them on.
If I had to choose what to do with one digit I would however always go for it to be placed before the 100 Hz digits however, at least for frequencies up to 9999KHz. Subconsciously I think I have been struggling a little when looking at and reading the dial on my MKARS80 and now since you mentioned it in your message I thought it maybe now was a good time to bring it to Steve's attention and also get the views of others as well.
Like you I started in the valve era and my eyesight is not too good now, my first computer experience was using punched cards and ticker tape and teleprinters to load in Ferranti Pegasus autocode and MAC in the 1950s long before Mackintosh got that nickname.
As you can see from the above I have also loaded in MPLAB now but I think you will probably beat me into getting a PIC to work.
73 de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, "pa0rcl" <pa0rcl@...> wrote:
>
> Hello Charles,
>
> As I remarked the extra decimal point is only a minor issue. Unlike you Britains, continental Europeans have become used to the decimal system for ages. Even all my Japanese rigs display 3755200 as 3.755.200. This is the only correct way. For my sake, the characters "MHz" on the MKARS80's display could be left out and an extra deceimal point added if the first three positions should remain to display the mode.
> I will probably have do dive into PIC-programming (it's Double Dutch to me also, no offense taken, the French even say that Dutch is not a language but a throat disease) myself to implement this desire. But as I wrote to Steve I'm from the tube era and I'm not sure if I'll ever manage to master PICs. However, I intend to order a Velleman PIC-programmer and I've already downloaded MPLAB as indicated by Steve. So far so good!
> BTW, my remark should not be seen as criticism. I'm very satisfied with my MKARS80's and Steve has surely done a wonderful job, I concur with all other posts on this. In addition, Steve's support is admirable, not to mention his patience!
>
> 73

>
> Ron pa0rcl
>
>
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>
>
>
> From: g3oth
> To: mkars80@...
> Sent: Tuesday, January 06, 2009 12:24 AM
> Subject: [mkars80] Re: Update - CW adapter and new firmware
>
>
>
>
> Hello Ron
> I tend to agree with you but why not go for 3755.200 instead.
> That way only the position of the decimal point is changed and as
> only one is needed, LSB can still be retained and MHz changed to
KHz.
> I know that Steve mentioned sometime earlier he might want to
display
> either LSB or CW to indicate modes, so what do you say Steve ?
>
> 73 de Charles G3OTH
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

523. Re: [mkars80] Re: Programmer

Yahoo group: mkars80
Date: 2009-01-06 20:20:26 UTC
From: Steve Drury
Topic: 502 Message: 523

Charles,

I don't have much experiance with the Velleman programmer but I see that Winpic will work with it if required. Try loading the latter of the files I posted into MPLAB as a project and with a bit of luck it will work!

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Monday, January 05, 2009 11:59 PM
Subject: [mkars80] Re: Programmer

> Steve, I have been tempted several times to purchase the K8048
> Velleman PIC programming kit from Maplins, which I note supports the
> PIC16F818 you use for trhe MKARS80.
> I have never been involved with PIC programming before, but I am
> trying to read through Cliff (G8CQZ) Powlesland's book PIC Basics
> (RSGB) to find out what is involved.
> It would appear that this Velleman kit apart from a PIC has
> everything necessary (hardware, compiler and loader).
> Looking at the files section in this forum I see you have recently
> put up two zipped up files.
> One dated December 2008, another January 2009.
> I see from memory the earlier one contains 4 files with .asm, .HEX,
> inc (x2) extensions
> The later one has 5 files .url, .mcw, .HEX, .asm, .inc
> I looked at these with notepad and saw in the HEX files something
> that I recognise as probably being the file needed for programming
> the PIC, but what are the other files used for or are they in an
> assembler language, or text prompts, as to what is going on ?
> It is all Double Dutch to me (sorry Ron) but can you please lucidate ?
> What programmer do you use and for the record what program language
> C, C++ or other files are needed.
> Sometime I am going to have to face all this if I am ever to get my
> Star started.
> 73 de Charles G3OTH
>
>
> --- In mkars80@..., "John" <john.g4gcl@...> wrote:
>>
>> Hi Tony,
>> I'm not sure if this helps but I bought a programmer from a guy in
>> China via Ebay last November and the service was good as was the
>> unit. I just checked and they are still available at the same price.

>>
>> It's connected via a USB port so there is no need for any external
>> supply although one can be connected if the port cannot supply more
>> than 200Ma. It has a 40 ZIF socket so it can handle quite a lot of
>> devices.The software is quite reasonable too.
>>
>> If you would like any other info please let me know.
>>
>> It works out at about 38 Euro.
>> 73,
>> John.
>>
>> --- In mkars80@..., "peezetje" <asmld@> wrote:
>> >
>> > Hello to the group,
>> >
>> > Perhaps somebody knows. Is it possible to (re)program the 16F818
>> with
>> > the Velleman K8076 or do I need a different programmer?
>> >
>> > TIA
>> >
>> > 73, Tony PA0PZ
>> >
>>
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> ------------------------------------
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> Yahoo! Groups Links
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Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

524. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-06 20:26:09 UTC
From: Steve Drury
Topic: 520 Message: 524

I'm inclined to agree that an additional decimal point will enhance the readability, I plan on leaving the code as is for a while but will perhaps load a modified version to the group as an option at a later date. Once you've got a programmer though you might like to have a try at changing it yourself.

If you look at line 493 onwards of the latest code you find the frequency display routine, this and the text strings are all you will need to change.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Tuesday, January 06, 2009 3:00 PM
Subject: [mkars80] Re: New firmware

> FB Ron
> I must admit I hadn't noticed whether my ancient Yaesu digital rigs
> displayed the two decimal points or not. I know they display the
> decimal point before the 100 Hz digit, but guess you are right
> because I seem to remember the MHz and KHZ digits are separated
> somehow. I must take note next time I switch them on.
> If I had to choose what to do with one digit I would however always
> go for it to be placed before the 100 Hz digits however, at least for
> frequencies up to 9999KHz. Subconsciously I think I have been
> struggling a little when looking at and reading the dial on my
> MKARS80 and now since you mentioned it in your message I thought it
> maybe now was a good time to bring it to Steve's attention and also
> get the views of others as well.
> Like you I started in the valve era and my eyesight is not too
> good now, my first computer experience was using punched cards and
> ticker tape and teleprinters to load in Ferranti Pegasus autocode and
> MAC in the 1950s long before Mackintosh got that nickname.
> As you can see from the above I have also loaded in MPLAB now but I
> think you will probably beat me into getting a PIC to work.
> 73 de Charles G3OTH
>
> --- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>>
>> Hello Charles,
>>
>> As I remarked the extra decimal point is only a minor issue. Unlike
> you Britains, continental Europeans have become used to the decimal
> system for ages. Even all my Japanese rigs display 3755200 as
> 3.755.200. This is the only correct way. For my sake, the

> characters "MHz" on the MKARS80's display could be left out and an
> extra deceimal point added if the first three positions should remain
> to display the mode.
>> I will probably have do dive into PIC-programming (it's Double
> Dutch to me also, no offense taken, the French even say that Dutch is
> not a language but a throat disease) myself to implement this desire.
> But as I wrote to Steve I'm from the tube era and I'm not sure if
> I'll ever manage to master PICs. However, I intend to order a
> Velleman PIC-programmer and I've already downloaded MPLAB as
> indicated by Steve. So far so good!
>> BTW, my remark should not be seen as criticism. I'm very satisfied
> with my MKARS80's and Steve has surely done a wonderful job, I concur
> with all other posts on this. In addition, Steve's support is
> admirable, not to mention his patience!
>>
>> 73
>>
>> Ron pa0rcl
>>
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>>
>> From: g3oth
>> To: mkars80@...
>> Sent: Tuesday, January 06, 2009 12:24 AM
>> Subject: [mkars80] Re: Update - CW adapter and new firmware
>>
>>
>>
>>
>>
>> Hello Ron
>> I tend to agree with you but why not go for 3755.200 instead.
>> That way only the position of the decimal point is changed and as
>> only one is needed, LSB can still be retained and MHz changed to
> KHz.
>> I know that Steve mentioned sometime earlier he might want to
> display
>> either LSB or CW to indicate modes, so what do you say Steve ?
>>
>> 73 de Charles G3OTH
>>
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>> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

525. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-06 21:05:48 UTC
From: Steve Drury
Topic: 520 Message: 525

OK, just for you Ron I've modified the code and uploaded it to the file section, as an eample the top line now says:

LSB 3.727.500 Hz

How's that?

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Tuesday, January 06, 2009 8:26 PM
Subject: Re: [mkars80] Re: New firmware

> I'm inclined to agree that an additional decimal point will enhance the
> readability, I plan on leaving the code as is for a while but will perhaps
> load a modified version to the group as an option at a later date. Once
> you've got a programmer though you might like to have a try at changing it
> yourself.
>
> If you look at line 493 onwards of the latest code you find the frequency
> display routine, this and the text strings are all you will need to
> change.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Tuesday, January 06, 2009 3:00 PM
> Subject: [mkars80] Re: New firmware
>
>
>> FB Ron
>> I must admit I hadn't noticed whether my ancient Yaesu digital rigs
>> displayed the two decimal points or not. I know they display the
>> decimal point before the 100 Hz digit, but guess you are right
>> because I seem to remember the MHz and KHZ digits are separated
>> somehow. I must take note next time I switch them on.
>> If I had to choose what to do with one digit I would however always
>> go for it to be placed before the 100 Hz digits however, at least for
>> frequencies up to 9999KHz. Subconsciously I think I have been
>> struggling a little when looking at and reading the dial on my
>> MKARS80 and now since you mentioned it in your message I thought it
>> maybe now was a good time to bring it to Steve's attention and also

>> get the views of others as well.
>> Like you I started in the valve era and my eyesight is not too
>> good now, my first computer experience was using punched cards and
>> ticker tape and teleprinters to load in Ferranti Pegasus autocode and
>> MAC in the 1950s long before Mackintosh got that nickname.
>> As you can see from the above I have also loaded in MPLAB now but I
>> think you will probably beat me into getting a PIC to work.
>> 73 de Charles G3OTH
>>
>> --- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>>>
>>> Hello Charles,
>>>
>>> As I remarked the extra decimal point is only a minor issue. Unlike
>> you Britains, continental Europeans have become used to the decimal
>> system for ages. Even all my Japanese rigs display 3755200 as
>> 3.755.200. This is the only correct way. For my sake, the
>> characters "MHz" on the MKARS80's display could be left out and an
>> extra deceimal point added if the first three positions should remain
>> to display the mode.
>>> I will probably have do dive into PIC-programming (it's Double
>> Dutch to me also, no offense taken, the French even say that Dutch is
>> not a language but a throat disease) myself to implement this desire.
>> But as I wrote to Steve I'm from the tube era and I'm not sure if
>> I'll ever manage to master PICs. However, I intend to order a
>> Velleman PIC-programmer and I've already downloaded MPLAB as
>> indicated by Steve. So far so good!
>>> BTW, my remark should not be seen as criticism. I'm very satisfied
>> with my MKARS80's and Steve has surely done a wonderful job, I concur
>> with all other posts on this. In addition, Steve's support is
>> admirable, not to mention his patience!
>>>
>>> 73
>>>
>>> Ron pa0rcl
>>>
>>>
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>>>
>>> From: g3oth
>>> To: mkars80@...
>>> Sent: Tuesday, January 06, 2009 12:24 AM
>>> Subject: [mkars80] Re: Update - CW adapter and new firmware
>>>
>>>
>>>
>>>
>>> Hello Ron

>>> I tend to agree with you but why not go for 3755.200 instead.
>>> That way only the position of the decimal point is changed and as
>>> only one is needed, LSB can still be retained and MHz changed to
>> KHz.
>>> I know that Steve mentioned sometime earlier he might want to
>> display
>>> either LSB or CW to indicate modes, so what do you say Steve ?
>>>
>>> 73 de Charles G3OTH
>>>
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>>> [Non-text portions of this message have been removed]
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>> Yahoo! Groups Links
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> 12/31/2008
> 8:44 AM
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> Yahoo! Groups Links
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Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

526. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-06 21:54:50 UTC
From: pa0rcl
Topic: 520 Message: 526

That's just fine Steve, thanks very much. The only thing I still need to do now is get acquainted with PIC programming.....

73 Ron pa0rcl

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, January 06, 2009 10:05 PM
Subject: Re: [mkars80] Re: New firmware

OK, just for you Ron I've modified the code and uploaded it to the file section, as an eample the top line now says:

LSB 3.727.500 Hz

How's that?

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Tuesday, January 06, 2009 8:26 PM
Subject: Re: [mkars80] Re: New firmware

> I'm inclined to agree that an additional decimal point will enhance the
> readability, I plan on leaving the code as is for a while but will perhaps
> load a modified version to the group as an option at a later date. Once
> you've got a programmer though you might like to have a try at changing it
> yourself.
>
> If you look at line 493 onwards of the latest code you find the frequency
> display routine, this and the text strings are all you will need to
> change.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Tuesday, January 06, 2009 3:00 PM
> Subject: [mkars80] Re: New firmware
>
>
>> FB Ron
>> I must admit I hadn't noticed whether my ancient Yaesu digital rigs

>> displayed the two decimal points or not. I know they display the
>> decimal point before the 100 Hz digit, but guess you are right
>> because I seem to remember the MHz and KHZ digits are separated
>> somehow. I must take note next time I switch them on.
>> If I had to choose what to do with one digit I would however always
>> go for it to be placed before the 100 Hz digits however, at least for
>> frequencies up to 9999KHz. Subconsciously I think I have been
>> struggling a little when looking at and reading the dial on my
>> MKARS80 and now since you mentioned it in your message I thought it
>> maybe now was a good time to bring it to Steve's attention and also
>> get the views of others as well.
>> Like you I started in the valve era and my eyesight is not too
>> good now, my first computer experience was using punched cards and
>> ticker tape and teleprinters to load in Ferranti Pegasus autocode and
>> MAC in the 1950s long before Mackintosh got that nickname.
>> As you can see from the above I have also loaded in MPLAB now but I
>> think you will probably beat me into getting a PIC to work.
>> 73 de Charles G3OTH
>>
>> --- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>>>
>>> Hello Charles,
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>>> As I remarked the extra decimal point is only a minor issue. Unlike
>> you Britains, continental Europeans have become used to the decimal
>> system for ages. Even all my Japanese rigs display 3755200 as
>> 3.755.200. This is the only correct way. For my sake, the
>> characters "MHz" on the MKARS80's display could be left out and an
>> extra deceimal point added if the first three positions should remain
>> to display the mode.
>>> I will probably have do dive into PIC-programming (it's Double
>> Dutch to me also, no offense taken, the French even say that Dutch is
>> not a language but a throat disease) myself to implement this desire.
>> But as I wrote to Steve I'm from the tube era and I'm not sure if
>> I'll ever manage to master PICs. However, I intend to order a
>> Velleman PIC-programmer and I've already downloaded MPLAB as
>> indicated by Steve. So far so good!
>>> BTW, my remark should not be seen as criticism. I'm very satisfied
>> with my MKARS80's and Steve has surely done a wonderful job, I concur
>> with all other posts on this. In addition, Steve's support is
>> admirable, not to mention his patience!
>>>
>>> 73
>>>
>>> Ron pa0rcl
>>>
>>>
>>>
>>>
>>>

>>>
>>> From: g3oth
>>> To: mkars80@...
>>> Sent: Tuesday, January 06, 2009 12:24 AM
>>> Subject: [mkars80] Re: Update - CW adapter and new firmware
>>>
>>>
>>>
>>>
>>> Hello Ron
>>> I tend to agree with you but why not go for 3755.200 instead.
>>> That way only the position of the decimal point is changed and as
>>> only one is needed, LSB can still be retained and MHz changed to
>> KHz.
>>> I know that Steve mentioned sometime earlier he might want to
>> display
>>> either LSB or CW to indicate modes, so what do you say Steve ?
>>>
>>> 73 de Charles G3OTH
>>>
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>>> [Non-text portions of this message have been removed]
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>> Yahoo! Groups Links
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> Internal Virus Database is out of date.
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> Yahoo! Groups Links
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>

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Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

[Non-text portions of this message have been removed]

527. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-07 00:57:01 UTC
From: Liz & Tony Buckland
Topic: 520 Message: 527

Hello Steve,

I've also loaded the new firmware and it looks perfect, just how it
should be :-), thanks.

I now have to play with MPLAB and get my call sign in the welcome
screen, I've spotted the "Your call sign here" line.

33.5C here and wall to wall blue sky.

73 Tony ZL3HAM

At 10:05 7/01/2009, you wrote:

>OK, just for you Ron I've modified the code and uploaded it to the file
>section, as an eample the top line now says:
>
>LSB 3.727.500 Hz
>
>How's that?
>
>Steve G6ALU
>
>----- Original Message -----
>From: "Steve Drury" <<mailto:g6alu%40tiscali.co.uk>g6alu@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Tuesday, January 06, 2009 8:26 PM
>Subject: Re: [mkars80] Re: New firmware
>
> > I'm inclined to agree that an additional decimal point will enhance the
> > readability, I plan on leaving the code as is for a while but will perhaps
> > load a modified version to the group as an option at a later date. Once
> > you've got a programmer though you might like to have a try at changing it
> > yourself.
> >
> > If you look at line 493 onwards of the latest code you find the frequency
> > display routine, this and the text strings are all you will need to
> > change.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "g3oth" <<mailto:g3oth%40btopenworld.com>g3oth@...>
> > To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> > Sent: Tuesday, January 06, 2009 3:00 PM
> > Subject: [mkars80] Re: New firmware

> >
> >
> >> FB Ron
> >> I must admit I hadn't noticed whether my ancient Yaesu digital rigs
> >> displayed the two decimal points or not. I know they display the
> >> decimal point before the 100 Hz digit, but guess you are right
> >> because I seem to remember the MHz and KHZ digits are separated
> >> somehow. I must take note next time I switch them on.
> >> If I had to choose what to do with one digit I would however always
> >> go for it to be placed before the 100 Hz digits however, at least for
> >> frequencies up to 9999KHz. Subconsciously I think I have been
> >> struggling a little when looking at and reading the dial on my
> >> MKARS80 and now since you mentioned it in your message I thought it
> >> maybe now was a good time to bring it to Steve's attention and also
> >> get the views of others as well.
> >> Like you I started in the valve era and my eyesight is not too
> >> good now, my first computer experience was using punched cards and
> >> ticker tape and teleprinters to load in Ferranti Pegasus autocode and
> >> MAC in the 1950s long before Mackintosh got that nickname.
> >> As you can see from the above I have also loaded in MPLAB now but I
> >> think you will probably beat me into getting a PIC to work.
> >> 73 de Charles G3OTH
> >>
> >> --- In
> <mailto:mkars80%40yahoogroups.co.uk>mkars80@...,
> "pa0rcl" <pa0rcl@...> wrote:
> >>>
> >>> Hello Charles,
> >>>
> >>> As I remarked the extra decimal point is only a minor issue. Unlike
> >> you Britains, continental Europeans have become used to the decimal
> >> system for ages. Even all my Japanese rigs display 3755200 as
> >> 3.755.200. This is the only correct way. For my sake, the
> >> characters "MHz" on the MKARS80's display could be left out and an
> >> extra deceimal point added if the first three positions should remain
> >> to display the mode.
> >>> I will probably have do dive into PIC-programming (it's Double
> >> Dutch to me also, no offense taken, the French even say that Dutch is
> >> not a language but a throat disease) myself to implement this desire.
> >> But as I wrote to Steve I'm from the tube era and I'm not sure if
> >> I'll ever manage to master PICs. However, I intend to order a
> >> Velleman PIC-programmer and I've already downloaded MPLAB as
> >> indicated by Steve. So far so good!
> >>> BTW, my remark should not be seen as criticism. I'm very satisfied
> >> with my MKARS80's and Steve has surely done a wonderful job, I concur
> >> with all other posts on this. In addition, Steve's support is
> >> admirable, not to mention his patience!
> >>>
> >>> 73
> >>>

> >>> Ron pa0rcl
> >>>
> >>>
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> >>>
> >>> From: g3oth
> >>> To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
> >>> Sent: Tuesday, January 06, 2009 12:24 AM
> >>> Subject: [mkars80] Re: Update - CW adapter and new firmware
> >>>
> >>>
> >>>
> >>>
> >>> Hello Ron
> >>> I tend to agree with you but why not go for 3755.200 instead.
> >>> That way only the position of the decimal point is changed and as
> >>> only one is needed, LSB can still be retained and MHz changed to
> >> KHz.
> >>> I know that Steve mentioned sometime earlier he might want to
> >> display
> >>> either LSB or CW to indicate modes, so what do you say Steve ?
> >>>
> >>> 73 de Charles G3OTH
> >>>
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> >>>
> >>> [Non-text portions of this message have been removed]
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> >> Yahoo! Groups Links
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>8:44 AM
>
>

[Non-text portions of this message have been removed]

528. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-07 08:02:26 UTC
From: g6alu@tiscali.co.uk
Topic: 520 Message: 528

Tony,

Easiest is to replace the "www.mkars.org.uk" bit.

Steve

>----Original Message----
>From: L-TBuckland@...
>Date: 07/01/2009 0:57
>To: <mkars80@...>
>Subj: Re: [mkars80] Re: New firmware
>
>Hello Steve,
>
>I've also loaded the new firmware and it looks perfect, just how it
>should be :-), thanks.
>
>I now have to play with MPLAB and get my call sign in the welcome
>screen, I've spotted the "Your call sign here" line.
>
>33.5C here and wall to wall blue sky.
>
>73 Tony ZL3HAM
>
>
>At 10:05 7/01/2009, you wrote:
>
>>OK, just for you Ron I've modified the code and uploaded it to the
file
>>section, as an eample the top line now says:
>>
>>LSB 3.727.500 Hz
>>
>>How's that?
>>
>>Steve G6ALU
>>
>>----- Original Message -----
>>From: "Steve Drury" <<mailto:g6alu%40tiscali.co.uk>g6alu@....
uk>
>>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>>Sent: Tuesday, January 06, 2009 8:26 PM
>>Subject: Re: [mkars80] Re: New firmware
>>
>> > I'm inclined to agree that an additional decimal point will
enhance the

>> > readability, I plan on leaving the code as is for a while but
will perhaps
>> > load a modified version to the group as an option at a later
date. Once
>> > you've got a programmer though you might like to have a try at
changing it
>> > yourself.
>> >
>> > If you look at line 493 onwards of the latest code you find the
frequency
>> > display routine, this and the text strings are all you will need
to
>> > change.
>> >
>> > Steve G6ALU
>> >
>> > ----- Original Message -----
>> > From: "g3oth" <<mailto:g3oth%40btopenworld.com>g3oth@btopenworld.
com>
>> > To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@....
uk>
>> > Sent: Tuesday, January 06, 2009 3:00 PM
>> > Subject: [mkars80] Re: New firmware
>> >
>> >
>> >> FB Ron
>> >> I must admit I hadn't noticed whether my ancient Yaesu digital
rigs
>> >> displayed the two decimal points or not. I know they display the
>> >> decimal point before the 100 Hz digit, but guess you are right
>> >> because I seem to remember the MHz and KHZ digits are separated
>> >> somehow. I must take note next time I switch them on.
>> >> If I had to choose what to do with one digit I would however
always
>> >> go for it to be placed before the 100 Hz digits however, at
least for
>> >> frequencies up to 9999KHz. Subconsciously I think I have been
>> >> struggling a little when looking at and reading the dial on my
>> >> MKARS80 and now since you mentioned it in your message I thought
it
>> >> maybe now was a good time to bring it to Steve's attention and
also
>> >> get the views of others as well.
>> >> Like you I started in the valve era and my eyesight is not too
>> >> good now, my first computer experience was using punched cards
and
>> >> ticker tape and teleprinters to load in Ferranti Pegasus
autocode and
>> >> MAC in the 1950s long before Mackintosh got that nickname.
>> >> As you can see from the above I have also loaded in MPLAB now

but I
>> >> think you will probably beat me into getting a PIC to work.
>> >> 73 de Charles G3OTH
>> >>
>> >> --- In
>> <mailto:mkars80%40yahoogroups.co.uk>mkars80@...,
>> "pa0rcl" <pa0rcl@...> wrote:
>> >>>
>> >>> Hello Charles,
>> >>>
>> >>> As I remarked the extra decimal point is only a minor issue.
Unlike
>> >> you Britains, continental Europeans have become used to the
decimal
>> >> system for ages. Even all my Japanese rigs display 3755200 as
>> >> 3.755.200. This is the only correct way. For my sake, the
>> >> characters "MHz" on the MKARS80's display could be left out and
an
>> >> extra deceimal point added if the first three positions should
remain
>> >> to display the mode.
>> >>> I will probably have do dive into PIC-programming (it's Double
>> >> Dutch to me also, no offense taken, the French even say that
Dutch is
>> >> not a language but a throat disease) myself to implement this
desire.
>> >> But as I wrote to Steve I'm from the tube era and I'm not sure
if
>> >> I'll ever manage to master PICs. However, I intend to order a
>> >> Velleman PIC-programmer and I've already downloaded MPLAB as
>> >> indicated by Steve. So far so good!
>> >>> BTW, my remark should not be seen as criticism. I'm very
satisfied
>> >> with my MKARS80's and Steve has surely done a wonderful job, I
concur
>> >> with all other posts on this. In addition, Steve's support is
>> >> admirable, not to mention his patience!
>> >>>
>> >>> 73
>> >>>
>> >>> Ron pa0rcl
>> >>>
>> >>>
>> >>>
>> >>>
>> >>>
>> >>>
>> >>> From: g3oth
>> >>> To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@....
uk

>> >>> Sent: Tuesday, January 06, 2009 12:24 AM
>> >>> Subject: [mkars80] Re: Update - CW adapter and new firmware
>> >>>
>> >>>
>> >>>
>> >>>
>> >>> Hello Ron
>> >>> I tend to agree with you but why not go for 3755.200 instead.
>> >>> That way only the position of the decimal point is changed and
as
>> >>> only one is needed, LSB can still be retained and MHz changed
to
>> >> KHz.
>> >>> I know that Steve mentioned sometime earlier he might want to
>> >> display
>> >>> either LSB or CW to indicate modes, so what do you say Steve ?
>> >>>
>> >>> 73 de Charles G3OTH
>> >>>
>> >>>
>> >>>
>> >>>
>> >>>
>> >>> [Non-text portions of this message have been removed]
>> >>>
>> >>
>> >>
>> >>
>> >> ------------------------------------
>> >>
>> >> Yahoo! Groups Links
>> >>
>> >>
>> >>
>> >
>> >
>> > --
>> >
>> >
>> >
>> > Internal Virus Database is out of date.
>> > Checked by AVG - <http://www.avg.com>http://www.avg.com
>> > Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date:
>> > 12/31/2008
>> > 8:44 AM
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links

>> >
>> >
>> >
>>
>>--
>>
>>Internal Virus Database is out of date.
>>Checked by AVG - <http://www.avg.com>http://www.avg.com
>>Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date:
12/31/2008
>>8:44 AM
>>
>>
>
>
>[Non-text portions of this message have been removed]
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>
>

50% off Norton Security 2009 - http://www.tiscali.co.uk/security

----

529. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-07 08:21:41 UTC
From: Liz & Tony Buckland
Topic: 520 Message: 529

Thanks Steve will give it a go.

Have just replaced the caps in a friends rig and updated the firmware
and he was highly impressed.

73 Tony ZL3HAM

At 21:02 7/01/2009, you wrote:

>Tony,
>
>Easiest is to replace the "www.mkars.org.uk" bit.
>
>Steve
>
> >----Original Message----
> >From: <mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...
> >Date: 07/01/2009 0:57
> >To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> >Subj: Re: [mkars80] Re: New firmware
> >
> >Hello Steve,
> >
> >I've also loaded the new firmware and it looks perfect, just how it
> >should be :-), thanks.
> >
> >I now have to play with MPLAB and get my call sign in the welcome
> >screen, I've spotted the "Your call sign here" line.
> >
> >33.5C here and wall to wall blue sky.
> >
> >73 Tony ZL3HAM
> >
> >
> >At 10:05 7/01/2009, you wrote:
> >
> >>OK, just for you Ron I've modified the code and uploaded it to the
>file
> >>section, as an eample the top line now says:
> >>
> >>LSB 3.727.500 Hz
> >>
> >>How's that?
> >>
> >>Steve G6ALU
> >>

> >>----- Original Message -----
> >>From: "Steve Drury"
> <<mailto:g6alu%40tiscali.co.uk><mailto:g6alu%40tiscali.co>g6alu@....
>uk>
> >>To:
> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> >>Sent: Tuesday, January 06, 2009 8:26 PM
> >>Subject: Re: [mkars80] Re: New firmware
> >>
> >> > I'm inclined to agree that an additional decimal point will
>enhance the
> >> > readability, I plan on leaving the code as is for a while but
>will perhaps
> >> > load a modified version to the group as an option at a later
>date. Once
> >> > you've got a programmer though you might like to have a try at
>changing it
> >> > yourself.
> >> >
> >> > If you look at line 493 onwards of the latest code you find the
>frequency
> >> > display routine, this and the text strings are all you will need
>to
> >> > change.
> >> >
> >> > Steve G6ALU
> >> >
> >> > ----- Original Message -----
> >> > From: "g3oth" <<mailto:g3oth%40btopenworld.com>g3oth@btopenworld.
>com>
> >> > To:
> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co>mkars80@....
>uk>
> >> > Sent: Tuesday, January 06, 2009 3:00 PM
> >> > Subject: [mkars80] Re: New firmware
> >> >
> >> >
> >> >> FB Ron
> >> >> I must admit I hadn't noticed whether my ancient Yaesu digital
>rigs
> >> >> displayed the two decimal points or not. I know they display the
> >> >> decimal point before the 100 Hz digit, but guess you are right
> >> >> because I seem to remember the MHz and KHZ digits are separated
> >> >> somehow. I must take note next time I switch them on.
> >> >> If I had to choose what to do with one digit I would however
>always
> >> >> go for it to be placed before the 100 Hz digits however, at
>least for
> >> >> frequencies up to 9999KHz. Subconsciously I think I have been
> >> >> struggling a little when looking at and reading the dial on my

> >> >> MKARS80 and now since you mentioned it in your message I thought
>it
> >> >> maybe now was a good time to bring it to Steve's attention and
>also
> >> >> get the views of others as well.
> >> >> Like you I started in the valve era and my eyesight is not too
> >> >> good now, my first computer experience was using punched cards
>and
> >> >> ticker tape and teleprinters to load in Ferranti Pegasus
>autocode and
> >> >> MAC in the 1950s long before Mackintosh got that nickname.
> >> >> As you can see from the above I have also loaded in MPLAB now
>but I
> >> >> think you will probably beat me into getting a PIC to work.
> >> >> 73 de Charles G3OTH
> >> >>
> >> >> --- In
> >>
> <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co.uk>mkars80@...,
>
> >> "pa0rcl" <pa0rcl@...> wrote:
> >> >>>
> >> >>> Hello Charles,
> >> >>>
> >> >>> As I remarked the extra decimal point is only a minor issue.
>Unlike
> >> >> you Britains, continental Europeans have become used to the
>decimal
> >> >> system for ages. Even all my Japanese rigs display 3755200 as
> >> >> 3.755.200. This is the only correct way. For my sake, the
> >> >> characters "MHz" on the MKARS80's display could be left out and
>an
> >> >> extra deceimal point added if the first three positions should
>remain
> >> >> to display the mode.
> >> >>> I will probably have do dive into PIC-programming (it's Double
> >> >> Dutch to me also, no offense taken, the French even say that
>Dutch is
> >> >> not a language but a throat disease) myself to implement this
>desire.
> >> >> But as I wrote to Steve I'm from the tube era and I'm not sure
>if
> >> >> I'll ever manage to master PICs. However, I intend to order a
> >> >> Velleman PIC-programmer and I've already downloaded MPLAB as
> >> >> indicated by Steve. So far so good!
> >> >>> BTW, my remark should not be seen as criticism. I'm very
>satisfied
> >> >> with my MKARS80's and Steve has surely done a wonderful job, I
>concur
> >> >> with all other posts on this. In addition, Steve's support is

> >> >> admirable, not to mention his patience!
> >> >>>
> >> >>> 73
> >> >>>
> >> >>> Ron pa0rcl
> >> >>>
> >> >>>
> >> >>>
> >> >>>
> >> >>>
> >> >>>
> >> >>> From: g3oth
> >> >>> To:
> <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co>mkars80@....
>uk
> >> >>> Sent: Tuesday, January 06, 2009 12:24 AM
> >> >>> Subject: [mkars80] Re: Update - CW adapter and new firmware
> >> >>>
> >> >>>
> >> >>>
> >> >>>
> >> >>> Hello Ron
> >> >>> I tend to agree with you but why not go for 3755.200 instead.
> >> >>> That way only the position of the decimal point is changed and
>as
> >> >>> only one is needed, LSB can still be retained and MHz changed
>to
> >> >> KHz.
> >> >>> I know that Steve mentioned sometime earlier he might want to
> >> >> display
> >> >>> either LSB or CW to indicate modes, so what do you say Steve ?
> >> >>>
> >> >>> 73 de Charles G3OTH
> >> >>>
> >> >>>
> >> >>>
> >> >>>
> >> >>>
> >> >>> [Non-text portions of this message have been removed]
> >> >>>
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> >> >>
> >> >>
> >> >> ------------------------------------
> >> >>
> >> >> Yahoo! Groups Links
> >> >>
> >> >>
> >> >>
> >> >>

> >> >
> >> > ----------
> >> >
> >> >
> >> >
> >> > Internal Virus Database is out of date.
> >> > Checked by AVG -
> <<http://www.avg.com>http://www.avg.com>http://www.avg.com
> >> > Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date:
> >> > 12/31/2008
> >> > 8:44 AM
> >> >
> >> >
> >> > ----------
> >> >
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> >>
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> >>
> >
> >
> >[Non-text portions of this message have been removed]
> >
> >
> >----------
> >
> >Yahoo! Groups Links
> >
> >
> >
> >
>
>50% off Norton Security 2009 -
><http://www.tiscali.co.uk/security>http://www.tiscali.co.uk/security
>
>_____
>
>

[Non-text portions of this message have been removed]

530. T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 12:12:08 UTC
From: dombaines
Topic: 530 Message: 530

What have people used to secure these, holt melt glue or something else?

72

Dom
M1KTA
http://m1kta-qrp.blogspot.com/2008/11/mkars-80m-tcvr.html
http://m1kta-qrp.blogspot.com/2009/01/mkars-80m-progress.html

531. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-07 13:51:51 UTC
From: g6alu@tiscali.co.uk
Topic: 520 Message: 531

Thanks for doing that... its a bit much to send it to me for modding!

Steve G6ALU

>----Original Message----
>From: L-TBuckland@...
>Date: 07/01/2009 8:21
>To: <mkars80@...>
>Subj: Re: [mkars80] Re: New firmware
>
>Thanks Steve will give it a go.
>
>Have just replaced the caps in a friends rig and updated the
firmware
>and he was highly impressed.
>
>73 Tony ZL3HAM
>
>
>At 21:02 7/01/2009, you wrote:
>
>>Tony,
>>
>>Easiest is to replace the "www.mkars.org.uk" bit.
>>
>>Steve
>>
>> >----Original Message----
>> >From: <mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...
>> >Date: 07/01/2009 0:57
>> >To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@....
uk>
>> >Subj: Re: [mkars80] Re: New firmware
>> >
>> >Hello Steve,
>> >
>> >I've also loaded the new firmware and it looks perfect, just how
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>> >should be :-), thanks.
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>> >I now have to play with MPLAB and get my call sign in the welcome
>> >screen, I've spotted the "Your call sign here" line.
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>> >33.5C here and wall to wall blue sky.
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>> >
>> >At 10:05 7/01/2009, you wrote:
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>>file
>> >>section, as an eample the top line now says:
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>> >>LSB 3.727.500 Hz
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>> >>How's that?
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>> >>Steve G6ALU
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>> >>----- Original Message -----
>> >>From: "Steve Drury"
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>> >>Sent: Tuesday, January 06, 2009 8:26 PM
>> >>Subject: Re: [mkars80] Re: New firmware
>> >>
>> >> > I'm inclined to agree that an additional decimal point will
>>enhance the
>> >> > readability, I plan on leaving the code as is for a while but
>>will perhaps
>> >> > load a modified version to the group as an option at a later
>>date. Once
>> >> > you've got a programmer though you might like to have a try at
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>>frequency
>> >> > display routine, this and the text strings are all you will
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>>to
>> >> > change.
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>> >> > Steve G6ALU
>> >> >
>> >> > ----- Original Message -----
>> >> > From: "g3oth" <<mailto:g3oth%40btopenworld.
com>g3oth@btopenworld.

>>com>
>> >> > To:
>> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
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>> >> > Sent: Tuesday, January 06, 2009 3:00 PM
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>>rigs
>> >> >> displayed the two decimal points or not. I know they display
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>> >> >> decimal point before the 100 Hz digit, but guess you are
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>> >> >> because I seem to remember the MHz and KHZ digits are
separated
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>> >> >> system for ages. Even all my Japanese rigs display 3755200 as
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>> >> >> characters "MHz" on the MKARS80's display could be left out
and
>>an
>> >> >> extra deceimal point added if the first three positions
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>>remain
>> >> >> to display the mode.
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>> >> >> Dutch to me also, no offense taken, the French even say that
>>Dutch is
>> >> >> not a language but a throat disease) myself to implement this
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>> >> >> I'll ever manage to master PICs. However, I intend to order a
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>> >> >>> BTW, my remark should not be seen as criticism. I'm very
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>> >> >> with my MKARS80's and Steve has surely done a wonderful job,
I
>>concur
>> >> >> with all other posts on this. In addition, Steve's support is
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>> >> >>> 73
>> >> >>>
>> >> >>> Ron pa0rcl
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>> From: g3oth
>> >> >>> To:

>> <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
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>>uk
>> >> >>> Sent: Tuesday, January 06, 2009 12:24 AM
>> >> >>> Subject: [mkars80] Re: Update - CW adapter and new firmware
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>> >> >>>
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instead.
>> >> >>> That way only the position of the decimal point is changed
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>>as
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>>to
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>> >> >>> I know that Steve mentioned sometime earlier he might want
to
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>> >> >>> either LSB or CW to indicate modes, so what do you say Steve
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>> >> >>>
>> >> >>> 73 de Charles G3OTH
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>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>> [Non-text portions of this message have been removed]
>> >> >>>
>> >> >>
>> >> >>
>> >> >>
>> >> >> ------------------------------------
>> >> >>
>> >> >> Yahoo! Groups Links
>> >> >>
>> >> >>
>> >> >>
>> >> >
>> >> >
>> >> > --
>> >> >
>> >> >
>> >> >
>> >> > Internal Virus Database is out of date.
>> >> > Checked by AVG -

>> <<http://www.avg.com>http://www.avg.com>http://www.avg.com
>> >> > Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release
Date:
>> >> > 12/31/2008
>> >> > 8:44 AM
>> >> >
>> >> >
>> >> > ---------------------------------
>> >> >
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>> >> >
>> >> >
>> >> >
>> >>
>> >>--
>> >>
>> >>Internal Virus Database is out of date.
>> >>Checked by AVG - <<http://www.avg.com>http://www.avg.com>http:
//www.avg.com
>> >>Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date:
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>> >>
>> >
>> >
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>> >
>> >
>> >>---------------------------------
>> >
>> >Yahoo! Groups Links
>> >
>> >
>> >
>> >
>>
>>50% off Norton Security 2009 -
>><http://www.tiscali.co.uk/security>http://www.tiscali.co.uk/security
>>
>>____
>>
>>
>
>
>[Non-text portions of this message have been removed]
>
>
>----------------------------------
>

>Yahoo! Groups Links
>
>
>
>

50% off Norton Security 2009 - http://www.tiscali.co.uk/security

---

532. Re: T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 16:44:07 UTC
From: g3oth
Topic: 530 Message: 532

--- In mkars80@..., "dombaines" <dombaines@...> wrote:
>
> What have people used to secure these, holt melt glue or something
else?
>
> 72
>
> Dom
> M1KTA
> http://m1kta-qrp.blogspot.com/2008/11/mkars-80m-tcvr.html
> http://m1kta-qrp.blogspot.com/2009/01/mkars-80m-progress.html
>
Dom, I am glad you asked this question as I have held back doing
anything about mechanically securing the coils and transformers on my
pcb until I could decide what best method to use.
In my opinion this job really needs to be done as they are too
vunerable to be left floating, touch wood, so far I have been lucky
that I haven't broken any wires going to them when handling the PCB
whilst fitting in case, replacing the vfo caps and making adjustments
etc.

I dont know what Steve's official recommendation is but as far as I
am concerned there are several possibilities I have considered so far:

1 Use Beeswax. Probably good enough for job, easily melted and
reworked, shouldn't effect L or Q too much.

2 Use Superglue. Possibly too good, not easily removed, probably does
not effect L or Q.

3 Use 2 part epoxy. Ditto as 2 above but even more difficult to
remove
and probably would make toroids and binoculars not reusable, don't
know
what effect this has on L or Q.

4 Use Hot Melt Glue. This has been used a lot apparently by BITX20A
users particularly in the USA, but I have not used it in this context
myself however I have a gun etc. and use it elsewhere for other jobs.
My feeling is it might work but may suffer from the drawbacks I have
postulated above in 3.

There maybe other methods that I have not considered, so I would be
interested to know what other members of this group have used and
whether they would still use their method again if they were to face
having to rework their kit.

BTW it is wonderful experience to see the display on the LCD remain rock steady and the SSB audio output unchanged whilst I gently "fiddle" with the unsecured VFO coil. That never happened for me before I used the H&P stabiliser technique!

Looking forward to hear all your findings before I take the plunge and "Stick down" my beasties.

73 de Charles G3OTH

533. RE: [mkars80] Re: T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 16:57:31 UTC
From: Ray Stringfellow
Topic: 530 Message: 533

Hot melt glue works fine but my favourite and much used is a small ball of Blu Tack

Ray

--- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk, "dombaines" <dombaines@...> wrote:
>
> What have people used to secure these, holt melt glue or something else?
>
> 72
>
> Dom
> M1KTA

[Non-text portions of this message have been removed]

534. Re: T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 17:00:44 UTC
From: g3oth
Topic: 530 Message: 534

```
--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> --- In mkars80@..., "dombaines" <dombaines@> wrote:
> >
> > What have people used to secure these, holt melt glue or
something
> else?
> >
> > 72
> >
> > Dom
> > M1KTA
> > http://m1kta-qrp.blogspot.com/2008/11/mkars-80m-tcvr.html
> > http://m1kta-qrp.blogspot.com/2009/01/mkars-80m-progress.html
> >
> Dom, I am glad you asked this question as I have held back doing
> anything about mechanically securing the coils and transformers on
my
> pcb until I could decide what best method to use.
> In my opinion this job really needs to be done as they are too
> vunerable to be left floating, touch wood, so far I have been lucky
> that I haven't broken any wires going to them when handling the PCB
> whilst fitting in case, replacing the vfo caps and making
adjustments
> etc.
>
> I dont know what Steve's official recommendation is but as far as I
> am concerned there are several possibilities I have considered so
far:
>
> 1 Use Beeswax. Probably good enough for job, easily melted and
> reworked, shouldn't effect L or Q too much.
>
> 2 Use Superglue. Possibly too good, not easily removed, probably
does
> not effect L or Q.
>
> 3 Use 2 part epoxy. Ditto as 2 above but even more difficult to
> remove
> and probably would make toroids and binoculars not reusable, don't
> know
> what effect this has on L or Q.
>
> 4 Use Hot Melt Glue. This has been used a lot apparently by BITX20A
> users particularly in the USA, but I have not used it in this
```

context
> myself however I have a gun etc. and use it elsewhere for other
jobs.
> My feeling is it might work but may suffer from the drawbacks I
have
> postulated above in 3.
>
> There maybe other methods that I have not considered, so I would be
> interested to know what other members of this group have used and
> whether they would still use their method again if they were to
face
> having to rework their kit.
>
> BTW it is wonderful experience to see the display on the LCD remain
> rock steady and the SSB audio output unchanged whilst I
> gently "fiddle" with the unsecured VFO coil. That never happened
for
> me before I used the H&P stabiliser technique!
>
> Looking forward to hear all your findings before I take the plunge
> and "Stick down" my beasties.
>
> 73 de Charles G3OTH
>
PS Forgot to mention another method I have thought about:

5 Use a proprietory (Rustins) Wax / Shellac Woodfiller stick used in
furniture restoration available from DIY stores. This easily melts
and remelts using a soldering iron (although higher than MP of
Beeswax), sets harder than Beeswax and is thus not as sticky and
hence does not attract as much dust, fluff and lint with age, which
can be a draw back with using 1.

I can't think of any more Hi Hi.

Charles G3OTH

535. Re: T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 17:20:10 UTC
From: g3oth
Topic: 530 Message: 535

--- In mkars80@..., "Ray Stringfellow" <g4tzr@...> wrote:
>
> Hot melt glue works fine but my favourite and much used is a small
ball of
> Blu Tack
>
> Ray
>

Ray, I also use this all the time for various jobs whilst assembling PCBs and agree it also works for toroids etc. and is very handy (apart from a tendency for picking up wire clippings and solder droppings whilst doing so, which you should look out for).
I would however prefer a more permanent and better looking cosmetic solution if there is one.
Charles G3OTH

536. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-07 17:59:03 UTC
From: pa0rcl
Topic: 520 Message: 536

Steve, from what date will MKARS80's be supplied with the new firmware (version 2.1)?

Thanks and 73
Ron pa0rcl

----- Original Message -----
From: g6alu@...
To: mkars80@...
Sent: Wednesday, January 07, 2009 2:51 PM
Subject: Re: [mkars80] Re: New firmware

Thanks for doing that... its a bit much to send it to me for modding!

Steve G6ALU

>----Original Message----
>From: L-TBuckland@...
>Date: 07/01/2009 8:21
>To: <mkars80@...>
>Subj: Re: [mkars80] Re: New firmware
>
>Thanks Steve will give it a go.
>
>Have just replaced the caps in a friends rig and updated the
firmware
>and he was highly impressed.
>
>73 Tony ZL3HAM
>
>
>At 21:02 7/01/2009, you wrote:
>
>>Tony,
>>
>>Easiest is to replace the "www.mkars.org.uk" bit.
>>
>>Steve
>>
>> >----Original Message----
>> >From: <mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...
>> >Date: 07/01/2009 0:57
>> >To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@....
uk>
>> >Subj: Re: [mkars80] Re: New firmware
>> >
>> >Hello Steve,

>> >
>> >I've also loaded the new firmware and it looks perfect, just how
it
>> >should be :-), thanks.
>> >
>> >I now have to play with MPLAB and get my call sign in the welcome
>> >screen, I've spotted the "Your call sign here" line.
>> >
>> >33.5C here and wall to wall blue sky.
>> >
>> >73 Tony ZL3HAM
>> >
>> >
>> >At 10:05 7/01/2009, you wrote:
>> >
>> >>OK, just for you Ron I've modified the code and uploaded it to
the
>>file
>> >>section, as an eample the top line now says:
>> >>
>> >>LSB 3.727.500 Hz
>> >>
>> >>How's that?
>> >>
>> >>Steve G6ALU
>> >>
>> >>----- Original Message -----
>> >>From: "Steve Drury"
>> <<mailto:g6alu%40tiscali.co.uk><mailto:g6alu%40tiscali.
co>g6alu@....
>>uk>
>> >>To:
>> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
co.uk>mkars80@...>
>> >>Sent: Tuesday, January 06, 2009 8:26 PM
>> >>Subject: Re: [mkars80] Re: New firmware
>> >>
>> >> > I'm inclined to agree that an additional decimal point will
>>enhance the
>> >> > readability, I plan on leaving the code as is for a while but
>>will perhaps
>> >> > load a modified version to the group as an option at a later
>>date. Once
>> >> > you've got a programmer though you might like to have a try at
>>changing it
>> >> > yourself.
>> >> >
>> >> > If you look at line 493 onwards of the latest code you find
the
>>frequency

>> >> > display routine, this and the text strings are all you will
need
>>to
>> >> > change.
>> >> >
>> >> > Steve G6ALU
>> >> >
>> >> > ----- Original Message -----
>> >> > From: "g3oth" <<mailto:g3oth%40btopenworld.
com>g3oth@btopenworld.
>>com>
>> >> > To:
>> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
co>mkars80@....
>>uk>
>> >> > Sent: Tuesday, January 06, 2009 3:00 PM
>> >> > Subject: [mkars80] Re: New firmware
>> >> >
>> >> >
>> >> >> FB Ron
>> >> >> I must admit I hadn't noticed whether my ancient Yaesu
digital
>>rigs
>> >> >> displayed the two decimal points or not. I know they display
the
>> >> >> decimal point before the 100 Hz digit, but guess you are
right
>> >> >> because I seem to remember the MHz and KHZ digits are
separated
>> >> >> somehow. I must take note next time I switch them on.
>> >> >> If I had to choose what to do with one digit I would however
>>always
>> >> >> go for it to be placed before the 100 Hz digits however, at
>>least for
>> >> >> frequencies up to 9999KHz. Subconsciously I think I have been
>> >> >> struggling a little when looking at and reading the dial on
my
>> >> >> MKARS80 and now since you mentioned it in your message I
thought
>>it
>> >> >> maybe now was a good time to bring it to Steve's attention
and
>>also
>> >> >> get the views of others as well.
>> >> >> Like you I started in the valve era and my eyesight is not
too
>> >> >> good now, my first computer experience was using punched
cards
>>and
>> >> >> ticker tape and teleprinters to load in Ferranti Pegasus

>>autocode and
>> >> >> MAC in the 1950s long before Mackintosh got that nickname.
>> >> >> As you can see from the above I have also loaded in MPLAB now
>>but I
>> >> >> think you will probably beat me into getting a PIC to work.
>> >> >> 73 de Charles G3OTH
>> >> >>
>> >> >> --- In
>> >>
>> <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
co.uk>mkars80@...,
>>
>> >> "pa0rcl" <pa0rcl@...> wrote:
>> >> >>>
>> >> >>> Hello Charles,
>> >> >>>
>> >> >>> As I remarked the extra decimal point is only a minor issue.
>>Unlike
>> >> >> you Britains, continental Europeans have become used to the
>>decimal
>> >> >> system for ages. Even all my Japanese rigs display 3755200 as
>> >> >> 3.755.200. This is the only correct way. For my sake, the
>> >> >> characters "MHz" on the MKARS80's display could be left out
and
>>an
>> >> >> extra deceimal point added if the first three positions
should
>>remain
>> >> >> to display the mode.
>> >> >>> I will probably have do dive into PIC-programming (it's
Double
>> >> >> Dutch to me also, no offense taken, the French even say that
>>Dutch is
>> >> >> not a language but a throat disease) myself to implement this
>>desire.
>> >> >> But as I wrote to Steve I'm from the tube era and I'm not
sure
>>if
>> >> >> I'll ever manage to master PICs. However, I intend to order a
>> >> >> Velleman PIC-programmer and I've already downloaded MPLAB as
>> >> >> indicated by Steve. So far so good!
>> >> >>> BTW, my remark should not be seen as criticism. I'm very
>>satisfied
>> >> >> with my MKARS80's and Steve has surely done a wonderful job,
I
>>concur
>> >> >> with all other posts on this. In addition, Steve's support is
>> >> >> admirable, not to mention his patience!
>> >> >>>
>> >> >>> 73

>> >> >>>
>> >> >>> Ron pa0rcl
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>> From: g3oth
>> >> >>> To:
>> <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
co>mkars80@....
>>uk
>> >> >>> Sent: Tuesday, January 06, 2009 12:24 AM
>> >> >>> Subject: [mkars80] Re: Update - CW adapter and new firmware
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>> Hello Ron
>> >> >>> I tend to agree with you but why not go for 3755.200
instead.
>> >> >>> That way only the position of the decimal point is changed
and
>>as
>> >> >>> only one is needed, LSB can still be retained and MHz
changed
>>to
>> >> >> KHz.
>> >> >>> I know that Steve mentioned sometime earlier he might want
to
>> >> >> display
>> >> >>> either LSB or CW to indicate modes, so what do you say Steve
?
>> >> >>>
>> >> >>> 73 de Charles G3OTH
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>>
>> >> >>> [Non-text portions of this message have been removed]
>> >> >>>
>> >> >>
>> >> >>
>> >> >>
>> >> >> ------------------------------------
>> >> >>
>> >> >> Yahoo! Groups Links
>> >> >>

>> >> >>
>> >> >>
>> >> >
>> >> >
>> >> > --
>> >> >
>> >> >
>> >> >
>> >> > Internal Virus Database is out of date.
>> >> > Checked by AVG -
>> <<http://www.avg.com>http://www.avg.com>http://www.avg.com
>> >> > Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release
Date:
>> >> > 12/31/2008
>> >> > 8:44 AM
>> >> >
>> >> >
>> >> > ------------------------------------
>> >> >
>> >> > Yahoo! Groups Links
>> >> >
>> >> >
>> >> >
>> >>
>> >>--
>> >>
>> >>Internal Virus Database is out of date.
>> >>Checked by AVG - <<http://www.avg.com>http://www.avg.com>http:
//www.avg.com
>> >>Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date:
>>12/31/2008
>> >>8:44 AM
>> >>
>> >>
>> >
>> >
>> >[Non-text portions of this message have been removed]
>> >
>> >
>> >>------------------------------------
>> >
>> >Yahoo! Groups Links
>> >
>> >
>> >
>> >
>>
>>50% off Norton Security 2009 -
>><http://www.tiscali.co.uk/security>http://www.tiscali.co.uk/security
>>

>>_____
>>
>>
>
>
>[Non-text portions of this message have been removed]
>
>
>-----------------------------------
>
>Yahoo! Groups Links
>
>
>
>

50% off Norton Security 2009 - http://www.tiscali.co.uk/security

_____

[Non-text portions of this message have been removed]

537. Re: [mkars80] T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 18:20:15 UTC
From: Liz & Tony Buckland
Topic: 530 Message: 537

Hello Dom,

I use clear nail varnish dropped on using a cocktail stick works a treat.

73 Tony ZL3HAM

At 01:12 8/01/2009, you wrote:

>What have people used to secure these, holt melt glue or something else?
>
>72
>
>Dom
>M1KTA
><http://m1kta-qrp.blogspot.com/2008/11/mkars-80m-tcvr.html>http://m1kta-qrp.blogspot.com/2008/11/mkars-80m-tcvr.html
>http://m1kta-qrp.blogspot.com/2009/01/mkars-80m-progress.html
>
>

[Non-text portions of this message have been removed]

538. Re: T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 19:27:59 UTC
From: John
Topic: 530 Message: 538

I would go for a small amount of silicone sealer, not the type which smells of vinegar of course!

73,

John.

539. Re: [mkars80] Re: New firmware

Yahoo group: mkars80
Date: 2009-01-07 20:24:35 UTC
From: Steve Drury
Topic: 520 Message: 539

All version V1.3 onward are going out with the new VFO caps and version 2.1
of the firmware - I have been sending these out for a week now.

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Wednesday, January 07, 2009 5:59 PM
Subject: Re: [mkars80] Re: New firmware

> Steve, from what date will MKARS80's be supplied with the new firmware
> (version 2.1)?
>
> Thanks and 73
> Ron pa0rcl
>
>
>
> ----- Original Message -----
> From: g6alu@...
> To: mkars80@...
> Sent: Wednesday, January 07, 2009 2:51 PM
> Subject: Re: [mkars80] Re: New firmware
>
>
> Thanks for doing that... its a bit much to send it to me for modding!
>
> Steve G6ALU
>
> >----Original Message----
> >From: L-TBuckland@...
> >Date: 07/01/2009 8:21
> >To: <mkars80@...>
> >Subj: Re: [mkars80] Re: New firmware
> >
> >Thanks Steve will give it a go.
> >
> >Have just replaced the caps in a friends rig and updated the
> firmware
> >and he was highly impressed.
> >
> >73 Tony ZL3HAM
> >
> >
> >At 21:02 7/01/2009, you wrote:

> >
> >>Tony,
> >>
> >>Easiest is to replace the "www.mkars.org.uk" bit.
> >>
> >>Steve
> >>
> >> >----Original Message----
> >> >From: <mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...
> >> >Date: 07/01/2009 0:57
> >> >To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@....
> uk>
> >> >Subj: Re: [mkars80] Re: New firmware
> >> >
> >> >Hello Steve,
> >> >
> >> >I've also loaded the new firmware and it looks perfect, just how
> it
> >> >should be :-), thanks.
> >> >
> >> >I now have to play with MPLAB and get my call sign in the welcome
> >> >screen, I've spotted the "Your call sign here" line.
> >> >
> >> >33.5C here and wall to wall blue sky.
> >> >
> >> >73 Tony ZL3HAM
> >> >
> >> >
> >> >At 10:05 7/01/2009, you wrote:
> >> >
> >> >>OK, just for you Ron I've modified the code and uploaded it to
> the
> >>file
> >> >>section, as an eample the top line now says:
> >> >>
> >> >>LSB 3.727.500 Hz
> >> >>
> >> >>How's that?
> >> >>
> >> >>Steve G6ALU
> >> >>
> >> >>----- Original Message -----
> >> >>From: "Steve Drury"
> >> <<mailto:g6alu%40tiscali.co.uk><mailto:g6alu%40tiscali.
> co>g6alu@....
> >>uk>
> >> >>To:
> >> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
> co.uk>mkars80@...>
> >> >>Sent: Tuesday, January 06, 2009 8:26 PM

> >> >>Subject: Re: [mkars80] Re: New firmware
> >> >>
> >> >> > I'm inclined to agree that an additional decimal point will
> >>enhance the
> >> >> > readability, I plan on leaving the code as is for a while but
> >>will perhaps
> >> >> > load a modified version to the group as an option at a later
> >>date. Once
> >> >> > you've got a programmer though you might like to have a try at
> >>changing it
> >> >> > yourself.
> >> >> >
> >> >> > If you look at line 493 onwards of the latest code you find
> the
> >>frequency
> >> >> > display routine, this and the text strings are all you will
> need
> >>to
> >> >> > change.
> >> >> >
> >> >> > Steve G6ALU
> >> >> >
> >> >> > ----- Original Message -----
> >> >> > From: "g3oth" <<mailto:g3oth%40btopenworld.
> com>g3oth@btopenworld.
> >>com>
> >> >> > To:
> >> <<mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
> co>mkars80@....
> >>uk>
> >> >> > Sent: Tuesday, January 06, 2009 3:00 PM
> >> >> > Subject: [mkars80] Re: New firmware
> >> >> >
> >> >> >
> >> >> >> FB Ron
> >> >> >> I must admit I hadn't noticed whether my ancient Yaesu
> digital
> >>rigs
> >> >> >> displayed the two decimal points or not. I know they display
> the
> >> >> >> decimal point before the 100 Hz digit, but guess you are
> right
> >> >> >> because I seem to remember the MHz and KHZ digits are
> separated
> >> >> >> somehow. I must take note next time I switch them on.
> >> >> >> If I had to choose what to do with one digit I would however
> >>always
> >> >> >> go for it to be placed before the 100 Hz digits however, at
> >>least for
> >> >> >> frequencies up to 9999KHz. Subconsciously I think I have been

> >> >> >> struggling a little when looking at and reading the dial on
> my
> >> >> >> MKARS80 and now since you mentioned it in your message I
> thought
> >>it
> >> >> >> maybe now was a good time to bring it to Steve's attention
> and
> >>also
> >> >> >> get the views of others as well.
> >> >> >> Like you I started in the valve era and my eyesight is not
> too
> >> >> >> good now, my first computer experience was using punched
> cards
> >>and
> >> >> >> ticker tape and teleprinters to load in Ferranti Pegasus
> >>autocode and
> >> >> >> MAC in the 1950s long before Mackintosh got that nickname.
> >> >> >> As you can see from the above I have also loaded in MPLAB now
> >>but I
> >> >> >> think you will probably beat me into getting a PIC to work.
> >> >> >> 73 de Charles G3OTH
> >> >> >>
> >> >> >> --- In
> >> >>
> >> <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
> co.uk>mkars80@...,
> >>
> >> >> "pa0rcl" <pa0rcl@...> wrote:
> >> >> >>>
> >> >> >>> Hello Charles,
> >> >> >>>
> >> >> >>> As I remarked the extra decimal point is only a minor issue.
> >>Unlike
> >> >> >> you Britains, continental Europeans have become used to the
> >>decimal
> >> >> >> system for ages. Even all my Japanese rigs display 3755200 as
> >> >> >> 3.755.200. This is the only correct way. For my sake, the
> >> >> >> characters "MHz" on the MKARS80's display could be left out
> and
> >>an
> >> >> >> extra deceimal point added if the first three positions
> should
> >>remain
> >> >> >> to display the mode.
> >> >> >>> I will probably have do dive into PIC-programming (it's
> Double
> >> >> >> Dutch to me also, no offense taken, the French even say that
> >>Dutch is
> >> >> >> not a language but a throat disease) myself to implement this
> >>desire.

> >> >> >> But as I wrote to Steve I'm from the tube era and I'm not
> sure
> >>if
> >> >> >> I'll ever manage to master PICs. However, I intend to order a
> >> >> >> Velleman PIC-programmer and I've already downloaded MPLAB as
> >> >> >> indicated by Steve. So far so good!
> >> >> >>> BTW, my remark should not be seen as criticism. I'm very
> >>satisfied
> >> >> >> with my MKARS80's and Steve has surely done a wonderful job,
> I
> >>concur
> >> >> >> with all other posts on this. In addition, Steve's support is
> >> >> >> admirable, not to mention his patience!
> >> >> >>>
> >> >> >>> 73
> >> >> >>>
> >> >> >>> Ron pa0rcl
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>> From: g3oth
> >> >> >>> To:
> >> <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.
> co>mkars80@....
> >>uk
> >> >> >>> Sent: Tuesday, January 06, 2009 12:24 AM
> >> >> >>> Subject: [mkars80] Re: Update - CW adapter and new firmware
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>> Hello Ron
> >> >> >>> I tend to agree with you but why not go for 3755.200
> instead.
> >> >> >>> That way only the position of the decimal point is changed
> and
> >>as
> >> >> >>> only one is needed, LSB can still be retained and MHz
> changed
> >>to
> >> >> >> KHz.
> >> >> >>> I know that Steve mentioned sometime earlier he might want
> to
> >> >> >> display
> >> >> >>> either LSB or CW to indicate modes, so what do you say Steve
> ?
> >> >> >>>

> >> >> >>> 73 de Charles G3OTH
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>>
> >> >> >>> [Non-text portions of this message have been removed]
> >> >> >>>
> >> >> >>
> >> >> >>
> >> >> >>
> >> >> >> ------------------------------------
> >> >> >>
> >> >> >> Yahoo! Groups Links
> >> >> >>
> >> >> >>
> >> >> >>
> >> >> >
> >> >> >
> >> >> > --
> >> >> >
> >> >> >
> >> >> >
> >> >> > Internal Virus Database is out of date.
> >> >> > Checked by AVG -
> >> <<http://www.avg.com>http://www.avg.com>http://www.avg.com
> >> >> > Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release
> Date:
> >> >> > 12/31/2008
> >> >> > 8:44 AM
> >> >> >
> >> >> >
> >> >> > ------------------------------------
> >> >> >
> >> >> > Yahoo! Groups Links
> >> >> >
> >> >> >
> >> >> >
> >> >>
> >> >>--
> >> >>
> >> >>Internal Virus Database is out of date.
> >> >>Checked by AVG - <<http://www.avg.com>http://www.avg.com>http:
> //www.avg.com
> >> >>Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date:
> >>12/31/2008
> >> >>8:44 AM
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> >> >Yahoo! Groups Links
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> >>50% off Norton Security 2009 -
> >><http://www.tiscali.co.uk/security>http://www.tiscali.co.uk/security
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> >Yahoo! Groups Links
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> 50% off Norton Security 2009 - http://www.tiscali.co.uk/security
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Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

540. Re: [mkars80] Re: T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 20:28:20 UTC
From: Steve Drury
Topic: 530 Message: 540

Yes I usde Dow corning 3145 but it costs the earth and comes in a BIG tube, mine was purchased at arally for ?1 though!

I have seen small tubes of a silicon adhesive in craft shops used for card making etc. I understand these are acid free.

Perhaps a small blob of wax or hot melt would be the best option otherwise.

Steve G6ALU

----- Original Message -----
From: "John" <john.g4gcl@...>
To: <mkars80@...>
Sent: Wednesday, January 07, 2009 7:27 PM
Subject: [mkars80] Re: T4 & T6

>
>
> I would go for a small amount of silicone sealer, not the type which
> smells of vinegar of course!
>
> 73,
>
> John.
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008 8:44 AM

541. RE: [mkars80] Re: T4 & T6

Yahoo group: mkars80
Date: 2009-01-07 22:56:18 UTC
From: Richard Herbert
Topic: 530 Message: 541

Hi all, would simple PVA adhesive do the job ?

thanks

Richard

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 07 January 2009 20:28
To: mkars80@....uk
Subject: Re: [mkars80] Re: T4 & T6

Yes I usde Dow corning 3145 but it costs the earth and comes in a BIG tube,
mine was purchased at arally for £1 though!

I have seen small tubes of a silicon adhesive in craft shops used for card
making etc. I understand these are acid free.

Perhaps a small blob of wax or hot melt would be the best option otherwise.

Steve G6ALU

----- Original Message -----
From: "John" <john.g4gcl@btopenwo <mailto:john.g4gcl%40btopenworld.com>
rld.com>
To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
Sent: Wednesday, January 07, 2009 7:27 PM
Subject: [mkars80] Re: T4 & T6

>
>
> I would go for a small amount of silicone sealer, not the type which
> smells of vinegar of course!
>
> 73,
>
> John.
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg. <http://www.avg.com> com
Version: 8.0.176 / Virus Database: 270.10.1/1870 - Release Date: 12/31/2008
8:44 AM

[Non-text portions of this message have been removed]

542. RF invisible glue

Yahoo group: mkars80
Date: 2009-01-07 23:10:32 UTC
From: Peter Wotherspoon
Topic: 542 Message: 542

This is very good cuz it is essentially using poly-styrene, which is most invisible to RF. Low Loss!

Hello Dom,

I use clear nail varnish dropped on using a cocktail stick works a treat.

73 Tony ZL3HAM

[Non-text portions of this message have been removed]

543. Velleman k8076 and Pic16F818 solution

Yahoo group: mkars80
Date: 2009-01-08 15:47:56 UTC
From: pa0ppw
Topic: 543 Message: 543

As quite some Mkars80 enthousiasts, I wanted the latest software in the
Pic16F818. A Velleman k8076 progger is not suited to prog a Pic16F818
as the software supplied does not mention that Pic.
The following solution is found.
Download the freeware programmer software Winpic800.
Under hardware choose JDM progger and choose as Pic the 16F818.
Connect the k8076 as usual and tie the wiring as a 16F84A.
With the 16F818 in the k8076, erasing and programming went fine.
I am open for questions.
Pierre (PA0PPW)

544. Re: CW adapter

Yahoo group: mkars80
Date: 2009-01-09 08:51:30 UTC
From: Tony Buckland
Topic: 429 Message: 544

Hello Ron,

Your AGC mod looks very good, did you design a PCB layout or just used
a small bit of Vero board? Also how did you set up the two pots, it
may be obvious when built of course but I thought I would ask in case
others would also like to adopt your fine design.

Many thanks.
73 Tony ZL3HAM

> Hello Steve (and all),
>
> I'll buy two CW adapters once they're available.
>
> BTW, I 've built a simple two-transistor AGC for the original
> MKARS80, just to protect my ears when I'm using my headset with boom
> mike.
> Unlike other designs I've seen in this country, my circuit reduces
> the gain of the first RF stage, thus preventing RF overload and the
> resulting AF distortion. There is no need to modify the orriginal
> board, it's a simple addition. I can mail you the schemtic if you're
> interested.
>
> Wish you and all members Merry Xmas and Happy 2009, may MKARS80 rule
> the waves!
>
> 73
>
> Ron pa0rcl
>
> >
> > Steve Drury wrote:
> > >
> > > Now with the capacitor mod we have quite reasonable VFO
> > stability, I'm
> > > considering designing a CW adapter; CW can be generated by simply
> > > injecting an audio tone into the microphone socket, to avoid images
> > > and key clicks this tone has to have controlled rise and fall times
> > > and also has to be clean (low harmonic content).
> > >
> > > Target specifications are as follows:
> > > a.. Stand alone unit which plugs into microphone and speaker sockets
> > > of MKARS80, microphone, speaker and key then plug into module.
> > > b.. 12 power feed via DC socket
> > > c.. CW band pass filter on receive as well as TX
> > > d.. Switching from SSB to CW by push switch.

> > > e.. Pre-set adjustments; CW tone frequency, hang delay, side-tone
> > level.
> > > f.. Side tone set to 700Hz, adjustable over a small range (possibly
> > > 600 - 800Hz)
> > > g.. TX output level by potentiometer; easy to set - just adjust so
> > > modulation LED goes out.
> > > h.. Built in limiter for headphone use with a dedicated headphone
> > socket
> > > i.. Unit can also be used stand-alone as a practice oscillator -
> > > waveform is nicely shaped so sounds good.
> > > j.. Intention that unit is built into an extension speaker.
> > > k.. Target price 15 - 20 GBP.
> > > I'm looking for comments please.
> > >
> > > Steve G6ALU
> > >
> > > [Non-text portions of this message have been removed]
> > >
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> > > --
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> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - http://www.avg.com
> > > Version: 8.0.176 / Virus Database: 270.10.0/1861 - Release Date:
> > 12/22/2008 11:23 AM
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> >
> >
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>
>
> [Non-text portions of this message have been removed]
>

545. Re: [mkars80] Re: CW adapter

Yahoo group: mkars80
Date: 2009-01-09 09:49:23 UTC
From: pa0rcl
Topic: 429 Message: 545

Hello Tony,

My circuit was built Manhattan style, I plan to make a simple Vero board to carry all of my home-brew additions, including prescaling trimmer pots for the varactor tuning.
The two AGC trimmer pots can be on the board and the setting of the left hand one is indicated on the schematic.
The setting of the right hand pot depends on your own liking and whether or not you use earphones. You can still use the RF gain control as usual. Experiment!
BTW, my design was inspired by the Taurus transceiver by SP5DDJ that I have here waiting to be built; we all borrow ideas from each other!

Good luck and enjoy the hobby,

73

Ron pa0rcl

Op 9-jan-2009, om 9:51 heeft Tony Buckland het volgende geschreven:

> Hello Ron,
>
> Your AGC mod looks very good, did you design a PCB layout or just used
> a small bit of Vero board? Also how did you set up the two pots, it
> may be obvious when built of course but I thought I would ask in case
> others would also like to adopt your fine design.
>
> Many thanks.
> 73 Tony ZL3HAM
>

[Non-text portions of this message have been removed]

546. Frequency display

Yahoo group: mkars80
Date: 2009-01-09 11:10:26 UTC
From: peezetje
Topic: 546 Message: 546

Hello Steve,

With the help of Pierre PA0PPW we put the new firmware (2.1) into the PIC controler. Works great, much smoother tuning specially in CW mode. HOWEVER display seems to be off frequency al bit. 3.600.000 MHz on the display is 3.599.900 in real, so a difference of 100 Hz. Can this be solved somewere in the software?

73, Tont PA0PZ

547. Re: [mkars80] Frequency display

Yahoo group: mkars80
Date: 2009-01-09 13:03:07 UTC
From: g6alu@tiscali.co.uk
Topic: 546 Message: 547

Yes it can be adjusted in the software but the reason it has probably changed is I measured the centre frequency of my filter and corrected the BFO frequency, you can correct this 100Hz by simply adjusting the BFO (10MHz) oscilator slightly.

Regards,
Steve G6ALU

>----Original Message----
>From: asmld@...
>Date: 09/01/2009 11:10
>To: <mkars80@...>
>Subj: [mkars80] Frequency display
>
>Hello Steve,
>
>With the help of Pierre PA0PPW we put the new firmware (2.1) into the
>PIC controler. Works great, much smoother tuning specially in CW
mode.
>HOWEVER display seems to be off frequency al bit. 3.600.000 MHz on
the
>display is 3.599.900 in real, so a difference of 100 Hz. Can this be
>solved somewere in the software?
>
>73, Tont PA0PZ
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>Yahoo! Groups Links
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548. Frequency display

Yahoo group: mkars80
Date: 2009-01-09 13:33:52 UTC
From: peezetje
Topic: 546 Message: 548

Thank you Steven, retuning the BFO frequency did the trick.

73, Tony PA0PZ

549. Volunteer required

Yahoo group: mkars80
Date: 2009-01-09 16:23:56 UTC
From: Steve Drury
Topic: 549 Message: 549

I have an amateur living in the USA who has purchased a kit but doesn't feel he has the competence to complete it; is there anyone who would like to build it for him?

If you would like to come forward I will pass you the requestors details.

Steve G6ALU

[Non-text portions of this message have been removed]

550. Re: [mkars80] Re: CW adapter

Yahoo group: mkars80
Date: 2009-01-09 20:18:17 UTC
From: Liz & Tony Buckland
Topic: 429 Message: 550

Hello Ron,

>My circuit was built Manhattan style, I plan to make a simple Vero
>board to carry all of my home-brew additions, including prescaling
>trimmer pots for the varactor tuning.

Thanks, sounds a good idea.

>The two AGC trimmer pots can be on the board and the setting of the
>left hand one is indicated on the schematic.
>The setting of the right hand pot depends on your own liking and
>whether or not you use earphones. You can still use the RF gain
>control as usual. Experiment!

All understood, experimenting is what this hobby is all about.

>BTW, my design was inspired by the Taurus transceiver by SP5DDJ that
>I have here waiting to be built; we all borrow ideas from each other!

**Yes had a look at that, it's great to see so many hams interested
in homebrewing. And nothing wrong with borrowing ideas, no point in
reinventing the wheel.**

>Good luck and enjoy the hobby, **Thanks again.**

73 Tony

>73
>
>Ron pa0rcl
>
>Op 9-jan-2009, om 9:51 heeft Tony Buckland het volgende geschreven:
>
> > Hello Ron,
> >
> > Your AGC mod looks very good, did you design a PCB layout or just used
> > a small bit of Vero board? Also how did you set up the two pots, it
> > may be obvious when built of course but I thought I would ask in case
> > others would also like to adopt your fine design.
> >
> > Many thanks.
> > 73 Tony ZL3HAM
> >
>
>[Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

551. Re: [mkars80] Volunteer required

Yahoo group: mkars80
Date: 2009-01-09 20:53:01 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 549   Message: 551

I'm in the US. I can certainly help him.

Steve Drury wrote:
> I have an amateur living in the USA who has purchased a kit but doesn't feel he has the competence to complete it; is there anyone who would like to build it for him?
>
> If you would like to come forward I will pass you the requestors details.
>
> Steve G6ALU
>

--
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
Nigel A. Gunn. G8IFF W8IFF (was KC8NHF)
1865 El Camino Drive, Xenia, OH 45385-1115, USA 937 825 5032
e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK,
MKARS, ALC
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552. Re: [mkars80] Volunteer required

Yahoo group: mkars80
Date: 2009-01-09 21:44:07 UTC
From: Steve Drury
Topic: 549   Message: 552

Thanks Nigel, I will pass on your email address.

Steve G6ALU

----- Original Message -----
From: "Nigel Gunn G8IFF/W8IFF" <nigel@...>
To: <mkars80@...>
Sent: Friday, January 09, 2009 8:53 PM
Subject: Re: [mkars80] Volunteer required

> I'm in the US. I can certainly help him.
>
>
> Steve Drury wrote:
>> I have an amateur living in the USA who has purchased a kit but doesn't
>> feel he has the competence to complete it; is there anyone who would like
>> to build it for him?
>>
>> If you would like to come forward I will pass you the requestors details.
>>
>> Steve G6ALU
>>
>
>
> --
> <><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
> Nigel A. Gunn. G8IFF W8IFF (was KC8NHF)
> 1865 El Camino Drive, Xenia, OH 45385-1115, USA 937 825 5032
> e-mail nigel@... www http://www.ngunn.net
> Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
> Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK,
> MKARS, ALC
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.5/1882 - Release Date: 1/8/2009

8:13 AM

553. MKARS Pic programming offer

Yahoo group: mkars80
Date: 2009-01-09 22:14:29 UTC
From: John
Topic: 553 Message: 553

Hello all,

Just dusted off my old Vellaman interface and can confirm I have successfully updated my MKARS80 software using WinPic.

It occurred to me not anyone has access to programme facilities or has the inclination to reprogramme the MKARS80 pic themselves, in which case I am happy to programme it for you with the latest software.

You have the option of personalising with your call sign appearing on the display at switch on also the frequency displayed as 3.700000 or 3.700.000

You would need to remove your old pic from its socket and send it to me. I will despatch it back to you with the latest software usually in 24hrs of receipt for the following cost...

UK 2.50GPB including return postage and packing
Oversea 4.00 including return post and packing

Payment by cheque (UK bank only) or PayPal (sorry you pay the PP charge in addition to above)

Anyone interested simply contact me direct by e-mail m0tif@...
please put anything radio related in your e-mail subject header ie mkars80 pic.

73 John (M0TIF)
Member of MKARS

555. It Works :-)

Yahoo group: mkars80
Date: 2009-01-09 22:19:30 UTC
From: darren_parvin
Topic: 555 Message: 555

Not that I had any doubt, but my newly finished MKARS80 receives OK.

I need to sort out the case, a mic and calibrate the BFO but so far so good.

Next step is to get a PIC interface and update the firmware. I understand from earlier posts that the MPLAB software is the way to go but I'm still a little confused as to what programmer hardware is best.

It's been a fun project and has certainly encouraged me to start constructing again.

Darren 2E0DJP

556. Re: [mkars80] It Works :-)

Yahoo group: mkars80
Date: 2009-01-09 22:25:11 UTC
From: Steve Drury
Topic: 555 Message: 556

Pleased to hear its working Darren, if you want to update the firmware yourself try downloading Winpic and in the help file you will find examples of simple programmers. If you would like someone else to re-program your micro see the earlier post from John M0TIF.

Regards,
Steve G6ALU

PS The radio works perfectly OK with the earlier software (V1.1) just that later versions are a little more refined.

----- Original Message -----
From: "darren_parvin" <darren_parvin@...>
To: <mkars80@...>
Sent: Friday, January 09, 2009 10:19 PM
Subject: [mkars80] It Works :-)

> Not that I had any doubt, but my newly finished MKARS80 receives OK.
>
> I need to sort out the case, a mic and calibrate the BFO but so far so
> good.
>
> Next step is to get a PIC interface and update the firmware. I
> understand from earlier posts that the MPLAB software is the way to go
> but I'm still a little confused as to what programmer hardware is best.
>
> It's been a fun project and has certainly encouraged me to start
> constructing again.
>
> Darren 2E0DJP
>
>
> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.5/1882 - Release Date: 1/8/2009 8:13 AM

557. Re: [mkars80] MKARS Pic programming offer

Yahoo group: mkars80
Date: 2009-01-09 22:28:38 UTC
From: Steve Drury
Topic: 553 Message: 557

Thanks for offering the service John.

To use the new firmware its important to also do the VFO capacitor mod. To help out I will give you a quantity of 1nF NP0 ceramic capacitors so you can supply two with each re-programmed micro.

Note all kits version V1.3 (or later) will include the VFO mod and new firmware, I have been sending these out for a week or so.

Regards,
Steve G6ALU

----- Original Message -----
From: "John" <John.Housego1@...>
To: <mkars80@...>
Sent: Friday, January 09, 2009 10:14 PM
Subject: [mkars80] MKARS Pic programming offer

> Hello all,
>
> Just dusted off my old Vellaman interface and can confirm I have
> successfully updated my MKARS80 software using WinPic.
>
> It occurred to me not anyone has access to programme facilities or has
> the inclination to reprogramme the MKARS80 pic themselves, in which
> case I am happy to programme it for you with the latest software.
>
> You have the option of personalising with your call sign appearing on
> the display at switch on also the frequency displayed as 3.700000 or
> 3.700.000
>
> You would need to remove your old pic from its socket and send it to
> me. I will despatch it back to you with the latest software usually in
> 24hrs of receipt for the following cost...
>
> UK 2.50GPB including return postage and packing
> Oversea 4.00 including return post and packing
>
> Payment by cheque (UK bank only) or PayPal (sorry you pay the PP
> charge in addition to above)
>
> Anyone interested simply contact me direct by e-mail m0tif@...
> please put anything radio related in your e-mail subject header ie
> mkars80 pic.
>
> 73 John (M0TIF)

> Member of MKARS
>
>
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>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.5/1882 - Release Date: 1/8/2009
8:13 AM

558. Velleman K8048 kit now supports PIC16F818

Yahoo group: mkars80
Date: 2009-01-10 12:18:29 UTC
From: John
Topic: 558 Message: 558

Hello All,

For those of you with the K8048 Vellerman have a new release of
software V2.6.0 for the K8048 interface which supports PIC16F818 as
used in the MKARS80, also many more pics.

It can be downloaded free from:
www.vellemanprojects.com/be/en/download/files/

The pic type appears in the drop down box now but I have not actually
tried programming as I now use WinPic successfully.

John (M0TIF)

559. CW adapter demo

Yahoo group: mkars80
Date: 2009-01-24 20:56:49 UTC
From: Steve Drury
Topic: 559 Message: 559

I've uploaded a demo of the CW adapter receive filter to the files section, it' an MP3 file. Note that I toggle the filter on and off during the recorded QSO.

See http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/

Steve G6ALU

[Non-text portions of this message have been removed]

560. Re: [mkars80] CW adapter demo

Yahoo group: mkars80
Date: 2009-01-24 21:18:16 UTC
From: Liz & Tony Buckland
Topic: 559 Message: 560

Brilliant Steve, looking forward to getting one!

73 Tony ZL3HAM

At 09:56 25/01/2009, you wrote:

>I've uploaded a demo of the CW adapter receive filter to the files
>section, it' an MP3 file. Note that I toggle the filter on and off
>during the recorded QSO.
>
>See
><http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/>http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/
>
>Steve G6ALU
>
>[Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

561. Re: [mkars80] CW adapter demo

Yahoo group: mkars80
Date: 2009-01-24 21:27:18 UTC
From: Steve Drury
Topic: 559 Message: 561

Yes I'm pleased with it Tony, the keyer also works well.

Unless anything unexpected happens (with the pound) the adapter will cost
GBP 20 and if components for the keyer are wanted they will be GBP 5 extra.
The keyer PCB is part of the main PCB board which allows constructors to
source their own components if they wish.

Steve G6ALU

----- Original Message -----
From: "Liz & Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Saturday, January 24, 2009 9:18 PM
Subject: Re: [mkars80] CW adapter demo

> Brilliant Steve, looking forward to getting one!
>
> 73 Tony ZL3HAM
>
>
> At 09:56 25/01/2009, you wrote:
>
>>I've uploaded a demo of the CW adapter receive filter to the files
>>section, it' an MP3 file. Note that I toggle the filter on and off
>>during the recorded QSO.
>>
>>See
>><http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/>http://uk.groups.yahoo.com
/group/mkars80/files/CW%20Adapter/
>>
>>Steve G6ALU
>>
>>[Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.13/1912 - Release Date: 1/23/2009
6:54 PM

562. Re: [mkars80] CW adapter demo

Yahoo group: mkars80
Date: 2009-01-24 22:07:42 UTC
From: Liz & Tony Buckland
Topic: 559 Message: 562

Hello Steve,

That's good news, I would definitely be interested in two, including
the keyer parts, please. When they are ready for shipping can you let
me know the total cost then I can send funds via PayPal.

Thanks for all your hard work.

It's hot here around the mid to upper 30's forcing one into the shack :-).

73 Tony ZL3HAM

>Yes I'm pleased with it Tony, the keyer also works well.
>
>Unless anything unexpected happens (with the pound) the adapter will cost
>GBP 20 and if components for the keyer are wanted they will be GBP 5 extra.
>The keyer PCB is part of the main PCB board which allows constructors to
>source their own components if they wish.
>
>Steve G6ALU
>
>----- Original Message -----
>From: "Liz & Tony Buckland"
><<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Saturday, January 24, 2009 9:18 PM
>Subject: Re: [mkars80] CW adapter demo
>
> > Brilliant Steve, looking forward to getting one!
> >
> > 73 Tony ZL3HAM
> >
> >
> > At 09:56 25/01/2009, you wrote:
> >
> >>I've uploaded a demo of the CW adapter receive filter to the files
> >>section, it' an MP3 file. Note that I toggle the filter on and off
> >>during the recorded QSO.
> >>
> >>See
> >><<http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/>htt
> p://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/>http://uk.groups.yahoo.com/gro
up/mkars80/files/CW%20Adapter/
> >>
> >>Steve G6ALU
> >>

> >>[Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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>No virus found in this incoming message.
>Checked by AVG - <http://www.avg.com>http://www.avg.com
>Version: 8.0.176 / Virus Database: 270.10.13/1912 - Release Date: 1/23/2009
>6:54 PM
>
>

[Non-text portions of this message have been removed]

563. Re: [mkars80] CW adapter demo

Yahoo group: mkars80
Date: 2009-01-24 22:30:46 UTC
From: DAVID CLENCH
Topic: 559 Message: 563

Hi Steve
I will be in the market for one whe they are available.

Dave G0BVV
--- On Sat, 24/1/09, Steve Drury <g6alu@...> wrote:
From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] CW adapter demo
To: mkars80@...
Date: Saturday, 24 January, 2009, 9:27 PM

Yes I'm pleased with it Tony, the keyer also works well.

Unless anything unexpected happens (with the pound) the adapter will cost

GBP 20 and if components for the keyer are wanted they will be GBP 5 extra.

The keyer PCB is part of the main PCB board which allows constructors to

source their own components if they wish.

Steve G6ALU

----- Original Message -----

From: "Liz & Tony Buckland" <L-TBuckland@ xtra.co.nz>

To: <mkars80@yahoogroups .co.uk>

Sent: Saturday, January 24, 2009 9:18 PM

Subject: Re: [mkars80] CW adapter demo

> Brilliant Steve, looking forward to getting one!

>

> 73 Tony ZL3HAM

>

>

> At 09:56 25/01/2009, you wrote:

>

>>I've uploaded a demo of the CW adapter receive filter to the files

>>section, it' an MP3 file. Note that I toggle the filter on and off

>>during the recorded QSO.

>>

>>See

>><http://uk.groups. yahoo.com/ group/mkars80/ files/CW% 20Adapter/>http://uk.groups.
yahoo.com/ group/mkars80/ files/CW% 20Adapter/

>>

>>Steve G6ALU

>>

>>[Non-text portions of this message have been removed]

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> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links

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No virus found in this incoming message.

Checked by AVG - http://www.avg. com

Version: 8.0.176 / Virus Database: 270.10.13/1912 - Release Date: 1/23/2009

6:54 PM

[Non-text portions of this message have been removed]

564. Re: [mkars80] CW adapter demo

Yahoo group: mkars80
Date: 2009-01-25 09:55:46 UTC
From: pa0rcl
Topic: 559 Message: 564

Hello Steve,

It's nice to see that your work is so successful. Please book me for
one CW adapter kit plus keyer parts, as a start. Let me know when you
are ready to deliver.

Thanks,

73 Ron pa0rcl

>
> > > At 09:56 25/01/2009, you wrote:
> > >
> > >>I've uploaded a demo of the CW adapter receive filter to the files
> > >>section, it' an MP3 file. Note that I toggle the filter on and off
> > >>during the recorded QSO.
> > >>
> > >>See
> > >><<http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/>htt
> > p://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/>http://
> uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/
> > >>
> > >>Steve G6ALU
> > >>
> > >>[Non-text portions of this message have been removed]
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> > > [Non-text portions of this message have been removed]
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> >Checked by AVG - <http://www.avg.com>http://www.avg.com
> >Version: 8.0.176 / Virus Database: 270.10.13/1912 - Release Date:
> 1/23/2009
> >6:54 PM

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[Non-text portions of this message have been removed]

565. Re: [mkars80] CW adapter demo

Yahoo group: mkars80
Date: 2009-01-25 10:18:31 UTC
From: Steve Drury
Topic: 559 Message: 565

Will do Ron....

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Sunday, January 25, 2009 9:55 AM
Subject: Re: [mkars80] CW adapter demo

> Hello Steve,
>
> It's nice to see that your work is so successful. Please book me for
> one CW adapter kit plus keyer parts, as a start. Let me know when you
> are ready to deliver.
>
> Thanks,
>
> 73 Ron pa0rcl
>
>
>>
>> > > At 09:56 25/01/2009, you wrote:
>> > >
>> > >>I've uploaded a demo of the CW adapter receive filter to the files
>> > >>section, it' an MP3 file. Note that I toggle the filter on and off
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>> > >>See
>> > >><<http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/>htt
>> > p://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/>http://
>> uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/
>> > >>
>> > >>Steve G6ALU
>> > >>
>> > >>[Non-text portions of this message have been removed]
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>> > > [Non-text portions of this message have been removed]
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>> > > Yahoo! Groups Links

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>> >No virus found in this incoming message.
>> >Checked by AVG - <http://www.avg.com>http://www.avg.com
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>> 1/23/2009
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> [Non-text portions of this message have been removed]
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> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.13/1914 - Release Date: 1/24/2009
8:40 PM

566. Velleman K8048 kit via USB/RS232 converter

Yahoo group: mkars80
Date: 2009-01-25 20:58:48 UTC
From: darren_parvin
Topic: 558 Message: 566

The updated firmware files seemed like a great excuse to try out a PIC interface and I have built one from the kit.

However, not having any RS232 ports on either of the computers I'm trying to use a USB/RS232 interface but with no joy.

The drivers for the interface have installed OK but I'm getting conflicting reports on whether the K8048 will run with a USB adapter, so has anyone run the K8048 via USB?

Just to make it even more of a challenge, I have a choice of either Vista on a PC or WinXP via a virtual machine on a mac laptop.

So facing what seemed like a simple thing, I'm now totally confused as to which way to direct my efforts. I've the firmware loaded into MPLAB's IDE, modified the welcome message but failing miserably trying to write to the PIC.

567. Re: Velleman K8048 kit via USB/RS232 converter

Yahoo group: mkars80
Date: 2009-01-25 21:47:42 UTC
From: John
Topic: 558 Message: 567

Hello Darren,

I can confirm the K8048 works directly connected to a serial port, I have just tried mine using a USB to serial adaptor and cant get it to work either under XP. Thats not to say its impossible, my PC is rather old and while I have managed to get other bits of hardware running using the adaptor most don't. Hopefully someone will come up with a solution for you on here.

John M0TIF

--- In mkars80@..., "darren_parvin" <darren_parvin@...>
wrote:

"so has anyone run the K8048 via USB?"

568. Re: [mkars80] Re: Velleman K8048 kit via USB/RS232 converter

Yahoo group: mkars80
Date: 2009-01-25 21:52:55 UTC
From: Tony Olewicz
Topic: 558 Message: 568

I half remember something in the kit documentation that says it will not work with a USB-Serial adaptor.

--- On Sun, 25/1/09, John <John.Housego1@tiscali.co.uk> wrote:
From: John <John.Housego1@...>
Subject: [mkars80] Re: Velleman K8048 kit via USB/RS232 converter
To: mkars80@yahoogroups.co.uk
Date: Sunday, 25 January, 2009, 9:47 PM

Hello Darren,

I can confirm the K8048 works directly connected to a serial port, I

have just tried mine using a USB to serial adaptor and cant get it to

work either under XP. Thats not to say its impossible, my PC is rather

old and while I have managed to get other bits of hardware running

using the adaptor most don't. Hopefully someone will come up with a

solution for you on here.

John M0TIF

--- In mkars80@yahoogroups .co.uk, "darren_parvin" <darren_parvin@ ...>

wrote:

"so has anyone run the K8048 via USB?"

[Non-text portions of this message have been removed]

569. Re: Velleman K8048 kit via USB/RS232 converter

Yahoo group: mkars80
Date: 2009-01-25 22:19:03 UTC
From: John
Topic: 558 Message: 569

Darren see Vellerman web site www.velleman.be/ot/en/product/view/?
id=350903
Unfortunatly the following detailed on there!>>>

"Extra information
IMPORTANT
not compatible with USB to serial (RS232) convertor !"

John (M0TIF)

--- In mkars80@..., Tony Olewicz <hamfm1000@...> wrote:
>
> I half remember something in the kit documentation that says it
will not work with a USB-Serial adaptor.
>
> --- On Sun, 25/1/09, John <John.Housego1@...> wrote:
> From: John <John.Housego1@...>
> Subject: [mkars80] Re: Velleman K8048 kit via USB/RS232 converter
> To: mkars80@...
> Date: Sunday, 25 January, 2009, 9:47 PM
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> Hello Darren,
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> I can confirm the K8048 works directly connected to a serial port,
I
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> have just tried mine using a USB to serial adaptor and cant get it
to
>
> work either under XP. Thats not to say its impossible, my PC is
rather
>
> old and while I have managed to get other bits of hardware running
>

> using the adaptor most don't. Hopefully someone will come up with a
>
> solution for you on here.
>
>
>
> John M0TIF
>
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>
> --- In mkars80@yahoogroups .co.uk, "darren_parvin"
<darren_parvin@ ...>
>
> wrote:
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> "so has anyone run the K8048 via USB?"
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570. RE: [mkars80] CW adapter demo

Yahoo group: mkars80
Date: 2009-01-25 22:35:11 UTC
From: Jerry Brown
Topic: 559 Message: 570

Steve,

Fantastic. I will be asking for two adapters and keyer parts when available.

73 from Oceania,

Jerry N4EO/KH6

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: Saturday, January 24, 2009 11:27 AM
Subject: Re: [mkars80] CW adapter demo

Yes I'm pleased with it Tony, the keyer also works well.

Unless anything unexpected happens (with the pound) the adapter will cost
GBP 20 and if components for the keyer are wanted they will be GBP 5 extra.
The keyer PCB is part of the main PCB board which allows constructors to
source their own components if they wish.

Steve G6ALU

[Non-text portions of this message have been removed]

571. Re: [mkars80] Re: Velleman K8048 kit via USB/RS232 converter

Yahoo group: mkars80
Date: 2009-01-26 10:36:17 UTC
From: Mikael Czerski
Topic: 558 Message: 571

On Sun, 25 Jan 2009, John wrote:

I have actually got it working with a USB dongle, albeit under Linux.....

I think the general issue is that most USB -> Serial converts wont provide
currect voltage/ttl levels...

- Mike

> Darren see Vellerman web site www.velleman.be/ot/en/product/view/?
> id=350903
> Unfortunatly the following detailed on there!>>>
>
> "Extra information
> IMPORTANT
> not compatible with USB to serial (RS232) convertor !"
>
>
> John (M0TIF)
>
> --- In mkars80@..., Tony Olewicz <hamfm1000@...> wrote:
>>
>> I half remember something in the kit documentation that says it
> will not work with a USB-Serial adaptor.
>>
>> --- On Sun, 25/1/09, John <John.Housego1@...> wrote:
>> From: John <John.Housego1@...>
>> Subject: [mkars80] Re: Velleman K8048 kit via USB/RS232 converter
>> To: mkars80@...
>> Date: Sunday, 25 January, 2009, 9:47 PM
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>> Hello Darren,
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>> I can confirm the K8048 works directly connected to a serial port,

> I
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>> have just tried mine using a USB to serial adaptor and cant get it
> to
>>
>> work either under XP. Thats not to say its impossible, my PC is
> rather
>>
>> old and while I have managed to get other bits of hardware running
>>
>> using the adaptor most don't. Hopefully someone will come up with a
>>
>> solution for you on here.
>>
>>
>>
>> John M0TIF
>>
>>
>>
>> --- In mkars80@yahoogroups .co.uk, "darren_parvin"
> <darren_parvin@ ...>
>>
>> wrote:
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>> "so has anyone run the K8048 via USB?"
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>> [Non-text portions of this message have been removed]
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- Mikael Czerski -
Phone: +44 7879424613 (celluar)
Hamradio: M0RBD (LA6IMA)

-----BEGIN GEEK CODE BLOCK-----
Version: 3.1
GCS/CM/CC/E/G/IT/MC/M/MU/S d(--)@>-- s:(++)>++ a- C++++
UBLUAVHISCX*---(on)>++++ P+++++>+++++ L>++++ E>--- W>+++ N>++++ o K--@
w$>---$ O>+ M>++ V PS PE Y PGP>++++ t 5 X>++ R>+++ tv>+ b>++++ DI D>++ G>++
e>++ h>++ r>++ y
------END GEEK CODE BLOCK------

572. Re: [mkars80] Re: Velleman K8048 kit via USB/RS232 converter

Yahoo group: mkars80
Date: 2009-01-26 10:41:40 UTC
From: Darren Parvin
Topic: 558 Message: 572

Thanks guys.

I must admit I checked out the velleman site before getting the kit, don't know how I missed the warning !

OK, now to hunt for a serial port card for my PC.

Darren 2E0DJP

--- On Mon, 26/1/09, Mikael Czerski <arcticfox@...> wrote:
From: Mikael Czerski <arcticfox@arklinux.org>
Subject: Re: [mkars80] Re: Velleman K8048 kit via USB/RS232 converter
To: mkars80@...
Date: Monday, 26 January, 2009, 10:36 AM

On Sun, 25 Jan 2009, John wrote:

I have actually got it working with a USB dongle, albeit under Linux.....

I think the general issue is that most USB -> Serial converts wont provide

currect voltage/ttl levels...

- Mike

> Darren see Vellerman web site www.velleman. be/ot/en/ product/view/ ?

> id=350903

> Unfortunatly the following detailed on there!>>>

>

> "Extra information

> IMPORTANT

> not compatible with USB to serial (RS232) convertor !"

>

>

> John (M0TIF)

>

> --- In mkars80@yahoogroups .co.uk, Tony Olewicz <hamfm1000@. ..> wrote:

>>

>> I half remember something in the kit documentation that says it

> will not work with a USB-Serial adaptor.

>>

>> --- On Sun, 25/1/09, John <John.Housego1@ ...> wrote:

>> From: John <John.Housego1@ ...>

>> Subject: [mkars80] Re: Velleman K8048 kit via USB/RS232 converter

>> To: mkars80@yahoogroups .co.uk

>> Date: Sunday, 25 January, 2009, 9:47 PM

>>

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>> Hello Darren,

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>>

>> I can confirm the K8048 works directly connected to a serial port,

> I

>>

>> have just tried mine using a USB to serial adaptor and cant get it

> to

>>

>> work either under XP. Thats not to say its impossible, my PC is

> rather

>>

>> old and while I have managed to get other bits of hardware running

>>

>> using the adaptor most don't. Hopefully someone will come up with a

>>

>> solution for you on here.

>>

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>> John M0TIF

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>> --- In mkars80@yahoogroups .co.uk, "darren_parvin"

> <darren_parvin@ ...>

>>

>> wrote:

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>> "so has anyone run the K8048 via USB?"

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>> [Non-text portions of this message have been removed]

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- Mikael Czerski -

Phone: +44 7879424613 (celluar)

Hamradio: M0RBD (LA6IMA)

-----BEGIN GEEK CODE BLOCK-----

Version: 3.1

GCS/CM/CC/E/ G/IT/MC/M/ MU/S d(--)@>-- s:(++)>++ a- C++++

UBLUAVHISCX* ---(on)>+ +++ P+++++>+++++ L>++++ E>--- W>+++ N>++++ o K--@

w$>---$ O>+ M>++ V PS PE Y PGP>++++ t 5 X>++ R>+++ tv>+ b>++++ DI D>++ G>++

e>++ h>++ r>++ y

------END GEEK CODE BLOCK------

[Non-text portions of this message have been removed]

573. [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-26 19:18:46 UTC
From: pa0rcl
Topic: 573 Message: 573

Hello Steve,

Here I am again with a minor issue about the firmware.... It sure is a minor one and I barely dare to bring it up! However:
The center Huff & Puff indicator is a horizontal dash, and the other 3 right and left, if they are displayed, are all the same dashes. If one has two dashes displayed, it is somewhat hard to tell in which direction one should turn the tuning knob in order to correct the frequency drift and display one (center) dash again. I sometimes turn the wrong way. This slight problem can be overcome easily by making the center indicator different from the other ones. If, for instance, the center dash would be a + (plus) or a vertical dash, or any other convenient character, it is easier to bring the the H&P circuit back to the center with the fine tuning, as one does not have to find out first which of the two or three displayed dashes is the center one.
It's only an idea ....

Thanks for your consideration and 73,

Ron pa0rcl

[Non-text portions of this message have been removed]

574. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-27 02:44:13 UTC
From: Liz & Tony Buckland
Topic: 573 Message: 574

Hello Steve,

Ron makes a valid point here, we might as well make it as pretty as we can :-), would it be Line 636 in the program ie (movlw "-" ; Centre bar). I think a change to a vertical bar would look best ie (movlw "|" ; Centre bar).

What a fussy lot of hams we are :-).

73 Tony ZL3HAM

>Hello Steve,
>
>Here I am again with a minor issue about the firmware.... It sure is
>a minor one and I barely dare to bring it up! However:
>The center Huff & Puff indicator is a horizontal dash, and the other
>3 right and left, if they are displayed, are all the same dashes. If
>one has two dashes displayed, it is somewhat hard to tell in which
>direction one should turn the tuning knob in order to correct the
>frequency drift and display one (center) dash again. I sometimes
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>making the center indicator different from the other ones. If, for
>instance, the center dash would be a + (plus) or a vertical dash, or
>any other convenient character, it is easier to bring the the H&P
>circuit back to the center with the fine tuning, as one does not
>have to find out first which of the two or three displayed dashes is
>the center one.
>It's only an idea ....
>
>Thanks for your consideration and 73,
>
>Ron pa0rcl
>
>[Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

575. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-29 19:12:43 UTC
From: Steve Drury
Topic: 573 Message: 575

Sorry for the slow response but I have been giving it some thought.

The "|" or a "+" sounds a good idea and is easy to implement but I'm trying to avoid many different versions of the code floating around. There will be another release soon so please let me have ALL the ideas so I can incorporate them!

I encourage everyone that is interested in making changes to get a simple programmer and have a go themselves.

Steve G6ALU

----- Original Message -----
From: "Liz & Tony Buckland" <L-TBuckland@...>
To: <mkars80@...>
Sent: Tuesday, January 27, 2009 2:44 AM
Subject: Re: [mkars80] firmware

> Hello Steve,
>
> Ron makes a valid point here, we might as well make it as pretty as
> we can :-), would it be Line 636 in the program ie (movlw "-" ;
> Centre bar). I think a change to a vertical bar would look best ie
> (movlw "|" ; Centre bar).
>
> What a fussy lot of hams we are :-).
>
> 73 Tony ZL3HAM
>
>
>>Hello Steve,
>>
>>Here I am again with a minor issue about the firmware.... It sure is
>>a minor one and I barely dare to bring it up! However:
>>The center Huff & Puff indicator is a horizontal dash, and the other
>>3 right and left, if they are displayed, are all the same dashes. If
>>one has two dashes displayed, it is somewhat hard to tell in which
>>direction one should turn the tuning knob in order to correct the
>>frequency drift and display one (center) dash again. I sometimes
>>turn the wrong way. This slight problem can be overcome easily by
>>making the center indicator different from the other ones. If, for
>>instance, the center dash would be a + (plus) or a vertical dash, or
>>any other convenient character, it is easier to bring the the H&P
>>circuit back to the center with the fine tuning, as one does not
>>have to find out first which of the two or three displayed dashes is
>>the center one.

>>It's only an idea ....
>>
>>Thanks for your consideration and 73,
>>
>>Ron pa0rcl
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>>[Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.13/1914 - Release Date: 1/24/2009
8:40 PM

576. display not show what it should

Yahoo group: mkars80
Date: 2009-01-29 19:13:45 UTC
From: m1dgq
Topic: 576 Message: 576

hi guys started with this problem before xmas but only just had time to get back to looking at the problem vfo test point does not seem to show any intelegent reading but 10 mhz test point is working fine measured various transistors etc Q8 Q9 Q11 and Q12 read older posts about the results still cannot see what is wrong

any more ideas

cheers peter m1dgq

577. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-29 20:11:45 UTC
From: pa0rcl
Topic: 573 Message: 577

Hello Steve,

Your policy to restrict the number of firmware versions is perfectly understandable and appreciated. However, I knew you had to change the code anyway, so this is why I took the liberty to suggest the mod. Indeed it is my firm intention to dive into PIC programming myself. That does not mean that I plan to change or even write code myself. I will see how far I get!

In view of your incitement to come up with ideas, here is a comment about the most recent firmware mod, i.e. the improved H&P routine. Judge for yourself if it is an idea or not. Personally, I have trouble tuning the last (most right-hand) digit. The H&P seems five times more accurate than before, it rounds to 5 Hz instead of 25. This has its consequence: if I want for instance 3.600.000 Hz, I usually end up with 3.600.005 or 3.629.995. I have already reduced the range of the fine tuning pot by adding a series resistor, but to no avail.
Quite frankly, I am not much interested in the last digit. Personally, I do not hear 10 Hz difference in the other party's voice pitch. Of course, I might as well simply disregard the last digit, but my mind wants to see zero's in the present case. I wish there were a way to blank the last digit, permanently for my sake. I did it temporarily by sticking a piece of paper on the last digit of the LCD, just to fool myself. As can be expected, it -virtually- makes tuning easier and more precise. All my other HF rigs, Kenwoods, do not display the Hz digit although they have precise and stable digital VFO's, there must be a reason for this. I never felt it was a problem that the Hz-digit was missing. I have no idea what the general feeling is about this, and this is why I post my comment here. This is not meant as criticism, I am still very pleased with my MKARS80s and I just started building my third one.

Thank you for your consideration and 73s

Ron pa0rcl

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Thursday, January 29, 2009 8:12 PM
Subject: Re: [mkars80] firmware

Sorry for the slow response but I have been giving it some thought.

The "|" or a "+" sounds a good idea and is easy to implement but I'm trying
to avoid many different versions of the code floating around. There will be
another release soon so please let me have ALL the ideas so I can
incorporate them!

I encourage everyone that is interested in making changes to get a simple
programmer and have a go themselves.

Steve G6ALU

·–’–·–’–––

[Non-text portions of this message have been removed]

578. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-29 20:30:29 UTC
From: Steve Drury
Topic: 573 Message: 578

OK Ron, lets see what the general opinion is and go from there.

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Thursday, January 29, 2009 8:11 PM
Subject: Re: [mkars80] firmware

> Hello Steve,
>
> Your policy to restrict the number of firmware versions is perfectly
> understandable and appreciated. However, I knew you had to change the code
> anyway, so this is why I took the liberty to suggest the mod. Indeed it is
> my firm intention to dive into PIC programming myself. That does not mean
> that I plan to change or even write code myself. I will see how far I get!
>
> In view of your incitement to come up with ideas, here is a comment about
> the most recent firmware mod, i.e. the improved H&P routine. Judge for
> yourself if it is an idea or not.
> Personally, I have trouble tuning the last (most right-hand) digit. The
> H&P seems five times more accurate than before, it rounds to 5 Hz instead
> of 25. This has its consequence: if I want for instance 3.600.000 Hz, I
> usually end up with 3.600.005 or 3.629.995. I have already reduced the
> range of the fine tuning pot by adding a series resistor, but to no avail.
> Quite frankly, I am not much interested in the last digit. Personally, I
> do not hear 10 Hz difference in the other party's voice pitch. Of course,
> I might as well simply disregard the last digit, but my mind wants to see
> zero's in the present case. I wish there were a way to blank the last
> digit, permanently for my sake. I did it temporarily by sticking a piece
> of paper on the last digit of the LCD, just to fool myself. As can be
> expected, it -virtually- makes tuning easier and more precise. All my
> other HF rigs, Kenwoods, do not display the Hz digit although they have
> precise and stable digital VFO's, there must be a reason for this. I never
> felt it was a problem that the Hz-digit was missing. I have no idea what
> the general feeling is about this, and this is why I post my comment here.
> This is not meant as criticism, I am still very pleased with my MKARS80s
> and I just started building my third one.
>
> Thank you for your consideration and 73s
>
> Ron pa0rcl
>
>
>

> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Thursday, January 29, 2009 8:12 PM
> Subject: Re: [mkars80] firmware
>
>
> Sorry for the slow response but I have been giving it some thought.
>
> The "|" or a "+" sounds a good idea and is easy to implement but I'm
> trying
> to avoid many different versions of the code floating around. There will
> be
> another release soon so please let me have ALL the ideas so I can
> incorporate them!
>
> I encourage everyone that is interested in making changes to get a simple
> programmer and have a go themselves.
>
> Steve G6ALU
>
> -----
> ·–'–·–'–––
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>

Internal Virus Database is out of date.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.13/1914 - Release Date: 1/24/2009
8:40 PM

579. Re: firmware

Yahoo group: mkars80
Date: 2009-01-29 21:46:27 UTC
From: John
Topic: 573 Message: 579

I have been trying a few variations of the tuning display and have settled here that the centre bar remains the same - but changed all negative bars (to the right of centre) to < and all positive bars (to left of centre) to > this also gives an indication which way to turn tuning knob to correct back to centre, effective and looks good.

John (M0TIF)

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Sorry for the slow response but I have been giving it some thought.
>
> The "|" or a "+" sounds a good idea and is easy to implement but I'm trying
> to avoid many different versions of the code floating around. There will be
> another release soon so please let me have ALL the ideas so I can
> incorporate them!
>
> I encourage everyone that is interested in making changes to get a simple
> programmer and have a go themselves.
>
> Steve G6ALU
>
>
> ----- Original Message -----
> From: "Liz & Tony Buckland" <L-TBuckland@...>
> To: <mkars80@...>
> Sent: Tuesday, January 27, 2009 2:44 AM
> Subject: Re: [mkars80] firmware
>
>
> > Hello Steve,
> >
> > Ron makes a valid point here, we might as well make it as pretty as
> > we can :-), would it be Line 636 in the program ie (movlw "-" ;
> > Centre bar). I think a change to a vertical bar would look best ie
> > (movlw "|" ; Centre bar).
> >
> > What a fussy lot of hams we are :-).
> >
> > 73 Tony ZL3HAM
> >
> >

> >>Hello Steve,
> >>
> >>Here I am again with a minor issue about the firmware.... It sure is
> >>a minor one and I barely dare to bring it up! However:
> >>The center Huff & Puff indicator is a horizontal dash, and the other
> >>3 right and left, if they are displayed, are all the same dashes. If
> >>one has two dashes displayed, it is somewhat hard to tell in which
> >>direction one should turn the tuning knob in order to correct the
> >>frequency drift and display one (center) dash again. I sometimes
> >>turn the wrong way. This slight problem can be overcome easily by
> >>making the center indicator different from the other ones. If, for
> >>instance, the center dash would be a + (plus) or a vertical dash, or
> >>any other convenient character, it is easier to bring the the H&P
> >>circuit back to the center with the fine tuning, as one does not
> >>have to find out first which of the two or three displayed dashes is
> >>the center one.
> >>It's only an idea ....
> >>
> >>Thanks for your consideration and 73,
> >>
> >>Ron pa0rcl
> >>
> >>[Non-text portions of this message have been removed]
> >>
> >>
> >
> >
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.13/1914 - Release Date:
1/24/2009
> 8:40 PM
>

580. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-30 04:17:27 UTC
From: Liz & Tony Buckland
Topic: 573 Message: 580

Hello Steve,

If the "|" was used it may go to one side of character block in the
display and that would look odd but on the other hand it may centre
itself, not sure. Or keep the "-" in the centre and incorporate the
chevrons as John suggested.

Ron's suggestion of removing the Hz digit may be valid and that way
the M could be reintroduced and return the display to MHz.

73 Tony ZL3HAM

>Sorry for the slow response but I have been giving it some thought.
>
>The "|" or a "+" sounds a good idea and is easy to implement but I'm trying
>to avoid many different versions of the code floating around. There will be
>another release soon so please let me have ALL the ideas so I can
>incorporate them!
>
>I encourage everyone that is interested in making changes to get a simple
>programmer and have a go themselves.
>
>Steve G6ALU
>
>----- Original Message -----
>From: "Liz & Tony Buckland"
><<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Tuesday, January 27, 2009 2:44 AM
>Subject: Re: [mkars80] firmware
>
> > Hello Steve,
> >
> > Ron makes a valid point here, we might as well make it as pretty as
> > we can :-), would it be Line 636 in the program ie (movlw "-" ;
> > Centre bar). I think a change to a vertical bar would look best ie
> > (movlw "|" ; Centre bar).
> >
> > What a fussy lot of hams we are :-).
> >
> > 73 Tony ZL3HAM
> >
> >
> >>Hello Steve,
> >>
> >>Here I am again with a minor issue about the firmware.... It sure is

> >>a minor one and I barely dare to bring it up! However:
> >>The center Huff & Puff indicator is a horizontal dash, and the other
> >>3 right and left, if they are displayed, are all the same dashes. If
> >>one has two dashes displayed, it is somewhat hard to tell in which
> >>direction one should turn the tuning knob in order to correct the
> >>frequency drift and display one (center) dash again. I sometimes
> >>turn the wrong way. This slight problem can be overcome easily by
> >>making the center indicator different from the other ones. If, for
> >>instance, the center dash would be a + (plus) or a vertical dash, or
> >>any other convenient character, it is easier to bring the the H&P
> >>circuit back to the center with the fine tuning, as one does not
> >>have to find out first which of the two or three displayed dashes is
> >>the center one.
> >>It's only an idea ....
> >>
> >>Thanks for your consideration and 73,
> >>
> >>Ron pa0rcl
> >>
> >>[Non-text portions of this message have been removed]
> >>
> >>
> >
> >
> > [Non-text portions of this message have been removed]
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> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>--
>
>No virus found in this incoming message.
>Checked by AVG - <http://www.avg.com>http://www.avg.com
>Version: 8.0.176 / Virus Database: 270.10.13/1914 - Release Date: 1/24/2009
>8:40 PM
>
>

[Non-text portions of this message have been removed]

581. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-30 09:09:33 UTC
From: Tony Olewicz
Topic: 573 Message: 581

The centre frequency could be indicated using the caret '^' character I suppose.

--- On Fri, 30/1/09, Liz & Tony Buckland <L-TBuckland@...> wrote:

From: Liz & Tony Buckland <L-TBuckland@...>
Subject: Re: [mkars80] firmware
To: mkars80@...
Date: Friday, 30 January, 2009, 4:17 AM

Hello Steve,

If the "|" was used it may go to one side of character block in the
display and that would look odd but on the other hand it may centre
itself, not sure. Or keep the "-" in the centre and incorporate the
chevrons as John suggested.

Ron's suggestion of removing the Hz digit may be valid and that way
the M could be reintroduced and return the display to MHz.

73 Tony ZL3HAM

>Sorry for the slow response but I have been giving it some thought.
>
>The "|" or a "+" sounds a good idea and is easy to implement but I'm trying
>to avoid many different versions of the code floating around. There will be
>another release soon so please let me have ALL the ideas so I can
>incorporate them!
>
>I encourage everyone that is interested in making changes to get a simple
>programmer and have a go themselves.
>
>Steve G6ALU
>
>----- Original Message -----
>From: "Liz & Tony Buckland"
><<mailto:L- TBuckland% 40xtra.co. nz>L-TBuckland@ xtra.co.nz>
>To: <<mailto:mkars80% 40yahoogroups. co.uk>mkars80@yahoogroups .co.uk>
>Sent: Tuesday, January 27, 2009 2:44 AM
>Subject: Re: [mkars80] firmware
>
> > Hello Steve,
> >
> > Ron makes a valid point here, we might as well make it as pretty as
> > we can :-), would it be Line 636 in the program ie (movlw "-" ;
> > Centre bar). I think a change to a vertical bar would look best ie
> > (movlw "|" ; Centre bar).
> >

> > What a fussy lot of hams we are :-).
> >
> > 73 Tony ZL3HAM
> >
> >
> >>Hello Steve,
> >>
> >>Here I am again with a minor issue about the firmware.... It sure is
> >>a minor one and I barely dare to bring it up! However:
> >>The center Huff & Puff indicator is a horizontal dash, and the other
> >>3 right and left, if they are displayed, are all the same dashes. If
> >>one has two dashes displayed, it is somewhat hard to tell in which
> >>direction one should turn the tuning knob in order to correct the
> >>frequency drift and display one (center) dash again. I sometimes
> >>turn the wrong way. This slight problem can be overcome easily by
> >>making the center indicator different from the other ones. If, for
> >>instance, the center dash would be a + (plus) or a vertical dash, or
> >>any other convenient character, it is easier to bring the the H&P
> >>circuit back to the center with the fine tuning, as one does not
> >>have to find out first which of the two or three displayed dashes is
> >>the center one.
> >>It's only an idea ....
> >>
> >>Thanks for your consideration and 73,
> >>
> >>Ron pa0rcl
> >>
> >>[Non-text portions of this message have been removed]
> >>
> >>
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
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>
>----------- --------- --------- --------- --------- --------- --
>
>No virus found in this incoming message.
>Checked by AVG - <http://www.avg. com>http://www.avg. com
>Version: 8.0.176 / Virus Database: 270.10.13/1914 - Release Date: 1/24/2009
>8:40 PM
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

582. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-30 09:42:48 UTC
From: pa0rcl
Topic: 573 Message: 582

Hello Steve and all,

Restoring "MHz" instead of "Hz" if the Hz digit is sacrificed is fine
with me.
About the chevrons suggested as indiators for fine-tuning left or
right, maybe we should remember that the original MKARS80 tunes the
"wrong" way. People like me with varactor-tuned MKARS80's turn the
"right" way, i.e. frequency goes up if knob is turned CW.

73 and have a nice weekend

Ron pa0rcl

Op 30-jan-2009, om 10:09 heeft Tony Olewicz het volgende geschreven:

> The centre frequency could be indicated using the caret '^'
> character I suppose.
>
> --- On Fri, 30/1/09, Liz & Tony Buckland <L-TBuckland@...>
> wrote:
>
> From: Liz & Tony Buckland <L-TBuckland@...>
> Subject: Re: [mkars80] firmware
> To: mkars80@...
> Date: Friday, 30 January, 2009, 4:17 AM
>
> Hello Steve,
>
> If the "|" was used it may go to one side of character block in the
> display and that would look odd but on the other hand it may centre
> itself, not sure. Or keep the "-" in the centre and incorporate the
> chevrons as John suggested.
>
> Ron's suggestion of removing the Hz digit may be valid and that way
> the M could be reintroduced and return the display to MHz.
>
> 73 Tony ZL3HAM
>
>

[Non-text portions of this message have been removed]

583. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-30 12:41:34 UTC
From: g6alu@tiscali.co.uk
Topic: 573 Message: 583

There is no restriction to what character is used for the central "on tune" indication as I can load whatever into the character generator ROM.

Are there any who think removing the last digit (Hz) will be a problem?

Steve G6ALU

>----Original Message----
>From: pa0rcl@...
>Date: 30/01/2009 9:42
>To: <mkars80@...>
>Subj: Re: [mkars80] firmware
>
>Hello Steve and all,
>
>Restoring "MHz" instead of "Hz" if the Hz digit is sacrificed is fine
>with me.
>About the chevrons suggested as indiators for fine-tuning left or
>right, maybe we should remember that the original MKARS80 tunes the
>"wrong" way. People like me with varactor-tuned MKARS80's turn the
>"right" way, i.e. frequency goes up if knob is turned CW.
>
>73 and have a nice weekend
>
>Ron pa0rcl
>
>
>Op 30-jan-2009, om 10:09 heeft Tony Olewicz het volgende geschreven:
>
>> The centre frequency could be indicated using the caret '^'
>> character I suppose.
>>
>> --- On Fri, 30/1/09, Liz & Tony Buckland <L-TBuckland@...>
>> wrote:
>>
>> From: Liz & Tony Buckland <L-TBuckland@...>
>> Subject: Re: [mkars80] firmware
>> To: mkars80@...
>> Date: Friday, 30 January, 2009, 4:17 AM
>>
>> Hello Steve,
>>
>> If the "|" was used it may go to one side of character block in the

>> display and that would look odd but on the other hand it may centre
>> itself, not sure. Or keep the "-" in the centre and incorporate the
>> chevrons as John suggested.
>>
>> Ron's suggestion of removing the Hz digit may be valid and that way
>> the M could be reintroduced and return the display to MHz.
>>
>> 73 Tony ZL3HAM
>>
>>
>
>
>
>[Non-text portions of this message have been removed]
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>Yahoo! Groups Links
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What Tiscali can do for you - http://www.tiscali.co.uk/services
_____

584. Re: firmware

Yahoo group: mkars80
Date: 2009-01-30 16:19:53 UTC
From: John
Topic: 573 Message: 584

I probably shouldn't be allowed a "vote" because my kit isn't finished
yet but I would not be in favour of removing the last digit.

73,

John.

--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:
>
> There is no restriction to what character is used for the central "on
> tune" indication as I can load whatever into the character generator
> ROM.
>
> Are there any who think removing the last digit (Hz) will be a
> problem?
>
> Steve G6ALU

585. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-30 19:28:54 UTC
From: Liz & Tony Buckland
Topic: 573 Message: 585

On second thoughts Steve I would be in favour of keeping the last
digit, no point in downgrading it's accuracy. I seem to be able to
get it spot on now. Just change the tuning characters that would be great.

Again thanks for all your hard work.

73 Tony ZL3HAM

At 01:41 31/01/2009, you wrote:

>There is no restriction to what character is used for the central "on
>tune" indication as I can load whatever into the character generator
>ROM.
>
>Are there any who think removing the last digit (Hz) will be a
>problem?
>
>Steve G6ALU
>
> >----Original Message----
> >From: <mailto:pa0rcl%40planet.nl>pa0rcl@...
> >Date: 30/01/2009 9:42
> >To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> >Subj: Re: [mkars80] firmware
> >
> >Hello Steve and all,
> >
> >Restoring "MHz" instead of "Hz" if the Hz digit is sacrificed is
>fine
> >with me.
> >About the chevrons suggested as indiators for fine-tuning left or
> >right, maybe we should remember that the original MKARS80 tunes the
> >"wrong" way. People like me with varactor-tuned MKARS80's turn the
> >"right" way, i.e. frequency goes up if knob is turned CW.
> >
> >73 and have a nice weekend
> >
> >Ron pa0rcl
> >
> >
> >Op 30-jan-2009, om 10:09 heeft Tony Olewicz het volgende geschreven:
> >
> >> The centre frequency could be indicated using the caret '^'
> >> character I suppose.
> >>
> >> --- On Fri, 30/1/09, Liz & Tony Buckland

> <<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
> >> wrote:
> >>
> >> From: Liz & Tony Buckland
> <<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
> >> Subject: Re: [mkars80] firmware
> >> To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
> >> Date: Friday, 30 January, 2009, 4:17 AM
> >>
> >> Hello Steve,
> >>
> >> If the "|" was used it may go to one side of character block in the
> >> display and that would look odd but on the other hand it may centre
> >> itself, not sure. Or keep the "-" in the centre and incorporate the
> >> chevrons as John suggested.
> >>
> >> Ron's suggestion of removing the Hz digit may be valid and that way
> >> the M could be reintroduced and return the display to MHz.
> >>
> >> 73 Tony ZL3HAM
> >>
> >>
> >
> >
> >
> >[Non-text portions of this message have been removed]
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> >
> >Yahoo! Groups Links
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>What Tiscali can do for you -
><http://www.tiscali.co.uk/services>http://www.tiscali.co.uk/services
>____
>
>

[Non-text portions of this message have been removed]

586. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-01-30 20:22:40 UTC
From: pa0rcl
Topic: 573 Message: 586

Steve, having noticed the feedback on the above issue today I ordered the Velleman PIC programmer as an attempt to keep abreast with technology and burn my own PICs in the future. I'll see how far I get.... Personally, I don't have second thoughts on the last frequency digit; perhaps I'll manage to solve the issue myself in the future. I can well live with the last digit for the time being and even with the horizontal bars. I've temporarily marked the middle horizontal bar on the display with a black felt tip pen, so it looks as if there is a + sign when the MKARS80 is on.
BTW I'm in the process of building a simple but very stable PLL VFO for the MKARS80. A fellow ham in this country has developed one and I'll give it a try. Probably this will make the H&P superfluous. I realise I'm drifting away from the original MKARS80 idea: simple, affordable and effective.

73's Ron pa0rcl

----- Original Message -----
From: Liz & Tony Buckland
To: mkars80@...
Sent: Friday, January 30, 2009 8:28 PM
Subject: Re: [mkars80] firmware

On second thoughts Steve I would be in favour of keeping the last
digit, no point in downgrading it's accuracy. I seem to be able to
get it spot on now. Just change the tuning characters that would be great.

Again thanks for all your hard work.

73 Tony ZL3HAM

At 01:41 31/01/2009, you wrote:

>There is no restriction to what character is used for the central "on
>tune" indication as I can load whatever into the character generator
>ROM.
>
>Are there any who think removing the last digit (Hz) will be a
>problem?
>
>Steve G6ALU
>
> >----Original Message----
> >From: <mailto:pa0rcl%40planet.nl>pa0rcl@...
> >Date: 30/01/2009 9:42
> >To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> >Subj: Re: [mkars80] firmware
> >
> >Hello Steve and all,
> >

> >Restoring "MHz" instead of "Hz" if the Hz digit is sacrificed is
>fine
> >with me.
> >About the chevrons suggested as indiators for fine-tuning left or
> >right, maybe we should remember that the original MKARS80 tunes the
> >"wrong" way. People like me with varactor-tuned MKARS80's turn the
> >"right" way, i.e. frequency goes up if knob is turned CW.
> >
> >73 and have a nice weekend
> >
> >Ron pa0rcl
> >
> >
> >Op 30-jan-2009, om 10:09 heeft Tony Olewicz het volgende geschreven:
> >
> >> The centre frequency could be indicated using the caret '^'
> >> character I suppose.
> >>
> >> --- On Fri, 30/1/09, Liz & Tony Buckland
> <<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
> >> wrote:
> >>
> >> From: Liz & Tony Buckland
> <<mailto:L-TBuckland%40xtra.co.nz>L-TBuckland@...>
> >> Subject: Re: [mkars80] firmware
> >> To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
> >> Date: Friday, 30 January, 2009, 4:17 AM
> >>
> >> Hello Steve,
> >>
> >> If the "|" was used it may go to one side of character block in the
> >> display and that would look odd but on the other hand it may centre
> >> itself, not sure. Or keep the "-" in the centre and incorporate the
> >> chevrons as John suggested.
> >>
> >> Ron's suggestion of removing the Hz digit may be valid and that way
> >> the M could be reintroduced and return the display to MHz.
> >>
> >> 73 Tony ZL3HAM
> >>
> >>
> >
> >
> >
> >[Non-text portions of this message have been removed]
> >
> >
> >------------------------------------
> >
> >Yahoo! Groups Links

> >
> >
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> >
>
>What Tiscali can do for you -
><http://www.tiscali.co.uk/services>http://www.tiscali.co.uk/services
>_____
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

587. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-02-02 15:18:34 UTC
From: pa0rcl
Topic: 573 Message: 587

Hello Steve,

Just wanted to let you know that I've built the Velleman K8048 PIC-programmer today. I bought it as a kit since I like building kits. An hour after its completion I downloaded the PA0RCL 2.1 firmware version from the files section and burnt my first PIC! And it works!
I should have done all this much earlier, I must confess, it is easier than I thought it would be.
Burning a PIC is one thing, changing the code is quite another chapter. I'll dive into this also, who knows.
Meanwhile, I'm ready for whatever firmware update you may want to give us.

BTW, congratulations on the renewed success of the MKARS80, it is certainly well deserved for all your hard work! Many hams in this country have one and from what I hear many more are interested.

Thanks and 73,

Ron pa0rcl

[Non-text portions of this message have been removed]

588. Re: [mkars80] Velleman K8048 kit now supports PIC16F818

Yahoo group: mkars80
Date: 2009-02-02 20:39:23 UTC
From: pa0rcl
Topic: 558 Message: 588

John, my Velleman K8048 works fine with Progpic2, but I just cannot get it to work with Winpic. The interface definition file is OK, I think it is "velleman_k8048.ini" and if I initialize the programmer I get a report saying that it is OK. Any idea what I'm doing wrong? I've spent a few hours on this already ...

Thanks for your help,

73 Ron pa0rcl

----- Original Message -----
From: John
To: mkars80@...
Sent: Saturday, January 10, 2009 1:18 PM
Subject: [mkars80] Velleman K8048 kit now supports PIC16F818

Hello All,

For those of you with the K8048 Vellerman have a new release of software V2.6.0 for the K8048 interface which supports PIC16F818 as used in the MKARS80, also many more pics.

It can be downloaded free from:
www.vellemanprojects.com/be/en/download/files/

The pic type appears in the drop down box now but I have not actually tried programming as I now use WinPic successfully.

John (M0TIF)

[Non-text portions of this message have been removed]

589. Re: Velleman K8048 kit now supports PIC16F818

Yahoo group: mkars80
Date: 2009-02-02 21:41:31 UTC
From: John
Topic: 558 Message: 589

Hello Ron,

Have you done the following?

In the interface tab change "interface type" to "Custom on LPT port defined by file" if its parallel or "Custom on COM port defined by file" if its serial. Use the select button underneath to select the Velleman .ini file.

Regards

John (M0TIF)

--- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> John, my Velleman K8048 works fine with Progpic2, but I just cannot get it to work with Winpic. The interface definition file is OK, I think it is "velleman_k8048.ini" and if I initialize the programmer I get a report saying that it is OK. Any idea what I'm doing wrong? I've spent a few hours on this already ...
>
> Thanks for your help,
>
> 73 Ron pa0rcl
>
>
> ----- Original Message -----
> From: John
> To: mkars80@...
> Sent: Saturday, January 10, 2009 1:18 PM
> Subject: [mkars80] Velleman K8048 kit now supports PIC16F818
>
>
>
> Hello All,
>
> For those of you with the K8048 Vellerman have a new release of
> software V2.6.0 for the K8048 interface which supports PIC16F818 as
> used in the MKARS80, also many more pics.
>
> It can be downloaded free from:
> www.vellemanprojects.com/be/en/download/files/
>
> The pic type appears in the drop down box now but I have not actually
> tried programming as I now use WinPic successfully.
>
> John (M0TIF)

>
>
>
>
>
> [Non-text portions of this message have been removed]
>

590. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-02-02 19:55:26 UTC
From: Steve Drury
Topic: 573 Message: 590

Thanks Ron,

I will upload the latest version shortly, I will probably place a "+" in the centre if thats OK?

Regards,
Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Monday, February 02, 2009 3:18 PM
Subject: Re: [mkars80] firmware

> Hello Steve,
>
> Just wanted to let you know that I've built the Velleman K8048
> PIC-programmer today. I bought it as a kit since I like building kits. An
> hour after its completion I downloaded the PA0RCL 2.1 firmware version
> from the files section and burnt my first PIC! And it works!
> I should have done all this much earlier, I must confess, it is easier
> than I thought it would be.
> Burning a PIC is one thing, changing the code is quite another chapter.
> I'll dive into this also, who knows.
> Meanwhile, I'm ready for whatever firmware update you may want to give us.
>
> BTW, congratulations on the renewed success of the MKARS80, it is
> certainly well deserved for all your hard work! Many hams in this country
> have one and from what I hear many more are interested.
>
> Thanks and 73,
>
> Ron pa0rcl
>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.176 / Virus Database: 270.10.16/1928 - Release Date: 1/31/2009
8:03 PM

591. Firmware version V2.4

Yahoo group: mkars80
Date: 2009-02-02 20:34:49 UTC
From: Steve Drury
Topic: 591 Message: 591

I've uploaded the latest firmware to the group - this has a "+" sign as the central character but I haven't removed the least significant digit.

Any one with version 2.1 or 2.2 may note that there is a bug in the frequency read-out between 3.774.080 and 3.774.720, if you would like your micro replaced please email me direct. This will only affect those sold a radio last week of December / first week of January, I will be making separate arrangements for Telford club members.

Steve G6ALU
g6alu@...

[Non-text portions of this message have been removed]

592. Re: [mkars80] firmware

Yahoo group: mkars80
Date: 2009-02-02 22:55:51 UTC
From: pa0rcl
Topic: 573 Message: 592

Just fine, Steve, thanks very much, I'll try not to bother you any
more with firmware changes or PIC burning!

73

Ron pa0rcl

Op 2-feb-2009, om 20:55 heeft Steve Drury het volgende geschreven:

> Thanks Ron,
>
> I will upload the latest version shortly, I will probably place a
> "+" in the
> centre if thats OK?
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Monday, February 02, 2009 3:18 PM
> Subject: Re: [mkars80] firmware
>
> > Hello Steve,
> >
> > Just wanted to let you know that I've built the Velleman K8048
> > PIC-programmer today. I bought it as a kit since I like building
> kits. An
> > hour after its completion I downloaded the PA0RCL 2.1 firmware
> version
> > from the files section and burnt my first PIC! And it works!
> > I should have done all this much earlier, I must confess, it is
> easier
> > than I thought it would be.
> > Burning a PIC is one thing, changing the code is quite another
> chapter.
> > I'll dive into this also, who knows.
> > Meanwhile, I'm ready for whatever firmware update you may want to
> give us.
> >
> > BTW, congratulations on the renewed success of the MKARS80, it is
> > certainly well deserved for all your hard work! Many hams in this
> country
> > have one and from what I hear many more are interested.
> >

> > Thanks and 73,
> >
> > Ron pa0rcl
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> --
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com
> Version: 8.0.176 / Virus Database: 270.10.16/1928 - Release Date:
> 1/31/2009
> 8:03 PM
>
>
>

73 Ron pa0rcl

[Non-text portions of this message have been removed]

593. Re: [mkars80] Firmware version V2.4

Yahoo group: mkars80
Date: 2009-02-02 23:54:13 UTC
From: Liz & Tony Buckland
Topic: 591 Message: 593

Many thanks Steve, have downloaded it and put my Name and call sign
in and it looks great.

Sorry to hear of the bad wx you guys are having over there.

Thanks again.
73 Tony ZL3HAM

>I've uploaded the latest firmware to the group - this has a "+" sign
>as the central character but I haven't removed the least significant digit.
>
>Any one with version 2.1 or 2.2 may note that there is a bug in the
>frequency read-out between 3.774.080 and 3.774.720, if you would
>like your micro replaced please email me direct. This will only
>affect those sold a radio last week of December / first week of
>January, I will be making separate arrangements for Telford club members.
>
>Steve G6ALU
><mailto:g6alu%40tiscali.co.uk>g6alu@...

[Non-text portions of this message have been removed]

594. Re: [mkars80] Re: Velleman K8048 kit now supports PIC16F818

Yahoo group: mkars80
Date: 2009-02-03 10:44:44 UTC
From: pa0rcl
Topic: 558 Message: 594

Hello John,

Indeed I had overlooked this option. It works fine now, thanks very much for your quick help!
I was able to make PICs with firmware version 4.2 now, my next aim is to change the source code as to include my call and then assemble it. No luck with MPLAB so far. Will keep trying.

Thanks again and 73's

Ron pa0rcl

----- Original Message -----
From: John
To: mkars80@...
Sent: Monday, February 02, 2009 10:41 PM
Subject: [mkars80] Re: Velleman K8048 kit now supports PIC16F818

Hello Ron,

Have you done the following?

In the interface tab change "interface type" to "Custom on LPT port defined by file" if its parallel or "Custom on COM port defined by file" if its serial. Use the select button underneath to select the Velleman .ini file.

Regards

John (M0TIF)

--- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> John, my Velleman K8048 works fine with Progpic2, but I just cannot get it to work with Winpic. The interface definition file is OK, I think it is "velleman_k8048.ini" and if I initialize the programmer I get a report saying that it is OK. Any idea what I'm doing wrong? I've spent a few hours on this already ...
>
> Thanks for your help,
>
> 73 Ron pa0rcl
>
>
> ----- Original Message -----
> From: John
> To: mkars80@...

> Sent: Saturday, January 10, 2009 1:18 PM
> Subject: [mkars80] Velleman K8048 kit now supports PIC16F818
>
>
> Hello All,
>
> For those of you with the K8048 Vellerman have a new release of
> software V2.6.0 for the K8048 interface which supports PIC16F818 as
> used in the MKARS80, also many more pics.
>
> It can be downloaded free from:
> www.vellemanprojects.com/be/en/download/files/
>
> The pic type appears in the drop down box now but I have not actually
> tried programming as I now use WinPic successfully.
>
> John (M0TIF)
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

595. Re: [mkars80] Firmware version V2.4

Yahoo group: mkars80
Date: 2009-02-03 11:14:44 UTC
From: pa0rcl
Topic: 591 Message: 595

Firmware version 2.4 working fine now in my MKARS80s, Steve, thanks very much for your FB support!

73

Ron pa0rcl

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Monday, February 02, 2009 9:34 PM
Subject: [mkars80] Firmware version V2.4

I've uploaded the latest firmware to the group - this has a "+" sign as the central character but I haven't removed the least significant digit.

Any one with version 2.1 or 2.2 may note that there is a bug in the frequency read-out between 3.774.080 and 3.774.720, if you would like your micro replaced please email me direct. This will only affect those sold a radio last week of December / first week of January, I will be making separate arrangements for Telford club members.

Steve G6ALU
g6alu@...

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

596. PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 12:49:28 UTC
From: Ron
Topic: 596 Message: 596

Hello all,

Steve released version 2.4 of the firmware and I was able to burn the 16F818 with the hexfile posted in the files section. So far so good!

Now, I want to put my name and call in the welcome text of the MKARS80.
To do that, I must modify the assembler file (.asm) and assemble the modified text file to hex.
So I downloaded MPLAB IDE, loaded the project into MPLAB and modified the .asm file. Then I selected the option "build" from the "project" tab. I then got the warning "Build Failed".
If I do this with the original (unmodified) .asm file I also got a build error. So I decided to use MPASMWIN, an assembler from Microchip, that came with my Velleman K8048 PIC programmer. If I load the MKARS80-V2_4.asm file into it and press "assemble", I get "908 lines assembled" and "235 Errors". This also happens if I use the original .asm file.

I clearly do something wrong, but I cannot see what. Is there anyone out here who can help me a step further, please??

Thanks a lot!

73 Ron pa0rcl

597. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 13:05:57 UTC
From: John
Topic: 596 Message: 597

Hello Ron,

Try the following instructions....

1 Open MPLAB
2 Click on project tab at top then select open from drop down menu
3 Open the folder that contains ALL of Steves latest firmware files
and select HuffNPuff file from within that folder it has an MPLAB icon
next to it.
4 You will now have multiple windows open, you need to see the one
that shows files in a tree format it could be hidden under another
page! From the tree double click on MKARS80-V24.ASM (assuming you are
loading the latest version) this will open the .ASM file for you to edit
5 To add call sign go to line 143 the rem statment on this line tells
you what to do
6 Once changed press ctrl F10 to convert to hex, load hex file to MKARS80

Hope that helps

John (M0TIF)

--- In mkars80@..., "Ron" <pa0rcl@...> wrote:
>
> Hello all,
>
> Steve released version 2.4 of the firmware and I was able to burn the
> 16F818 with the hexfile posted in the files section. So far so good!
>
> Now, I want to put my name and call in the welcome text of the
> MKARS80.
> To do that, I must modify the assembler file (.asm) and assemble the
> modified text file to hex.
> So I downloaded MPLAB IDE, loaded the project into MPLAB and modified
> the .asm file. Then I selected the option "build" from
> the "project" tab. I then got the warning "Build Failed".
> If I do this with the original (unmodified) .asm file I also got a
> build error. So I decided to use MPASMWIN, an assembler from
> Microchip, that came with my Velleman K8048 PIC programmer. If I load
> the MKARS80-V2_4.asm file into it and press "assemble", I get "908
> lines assembled" and "235 Errors". This also happens if I use the
> original .asm file.
>
> I clearly do something wrong, but I cannot see what. Is there anyone
> out here who can help me a step further, please??
>
> Thanks a lot!

>
> 73 Ron pa0rcl
>

598. Re: [mkars80] PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 13:54:31 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 596 Message: 598

Why can't you directly edit the hex file?

Ron wrote:
> Hello all,
>

> To do that, I must modify the assembler file

599. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 14:25:41 UTC
From: pa0rcl
Topic: 596 Message: 599

Hello John,

Well..... it works! Ctrl F10 did not work in my case but I used Quickbuild and that did the trick. After all, the whole thing is easier than I had imagined, once one knows how to do it, of course.

Thank you very much again for your all your help, John, without it I would have been messing around for days, if not weeks.

73s, and all the best!

Ron de pa0rcl

----- Original Message -----
From: John
To: mkars80@...
Sent: Tuesday, February 03, 2009 2:05 PM
Subject: [mkars80] Re: PIC-programming - HELP!

Hello Ron,

Try the following instructions....

1 Open MPLAB
2 Click on project tab at top then select open from drop down menu
3 Open the folder that contains ALL of Steves latest firmware files
and select HuffNPuff file from within that folder it has an MPLAB icon
next to it.
4 You will now have multiple windows open, you need to see the one
that shows files in a tree format it could be hidden under another
page! From the tree double click on MKARS80-V24.ASM (assuming you are
loading the latest version) this will open the .ASM file for you to edit
5 To add call sign go to line 143 the rem statment on this line tells
you what to do
6 Once changed press ctrl F10 to convert to hex, load hex file to MKARS80

Hope that helps

John (M0TIF)

--- In mkars80@..., "Ron" <pa0rcl@...> wrote:
>
> Hello all,
>
> Steve released version 2.4 of the firmware and I was able to burn the
> 16F818 with the hexfile posted in the files section. So far so good!
>
> Now, I want to put my name and call in the welcome text of the

> MKARS80.
> To do that, I must modify the assembler file (.asm) and assemble the
> modified text file to hex.
> So I downloaded MPLAB IDE, loaded the project into MPLAB and modified
> the .asm file. Then I selected the option "build" from
> the "project" tab. I then got the warning "Build Failed".
> If I do this with the original (unmodified) .asm file I also got a
> build error. So I decided to use MPASMWIN, an assembler from
> Microchip, that came with my Velleman K8048 PIC programmer. If I load
> the MKARS80-V2_4.asm file into it and press "assemble", I get "908
> lines assembled" and "235 Errors". This also happens if I use the
> original .asm file.
>
> I clearly do something wrong, but I cannot see what. Is there anyone
> out here who can help me a step further, please??
>
> Thanks a lot!
>
> 73 Ron pa0rcl
>

[Non-text portions of this message have been removed]

600. Re: [mkars80] PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 14:27:10 UTC
From: pa0rcl
Topic: 596 Message: 600

Probably because I'm too stupid, Nigel. I'm from the tube age, you see!

73

Ron de pa0rcl

----- Original Message -----
From: Nigel Gunn G8IFF/W8IFF
To: mkars80@...
Sent: Tuesday, February 03, 2009 2:54 PM
Subject: Re: [mkars80] PIC-programming - HELP!

Why can't you directly edit the hex file?

Ron wrote:
> Hello all,
>

> To do that, I must modify the assembler file

[Non-text portions of this message have been removed]

601. Re: [mkars80] PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 14:38:21 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 596 Message: 601

Now now Ron, no need to put yourself down.

The only problem would come if the hex file included some sort of checksum or parity information that would need to be
recalculated. Perhaps someone can advise on that. Otherwise, a hex file editor might be the easiest way to simply change
a text string.

pa0rcl wrote:
> Probably because I'm too stupid, Nigel. I'm from the tube age, you see!
>
> 73
>
> Ron de pa0rcl
>

602. Re: [mkars80] PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 14:54:26 UTC
From: pa0rcl
Topic: 596 Message: 602

Hello Nigel,

Well, OK, perhaps I'm not exactly stupid but simply ignorant regarding PICs and the like. I had my training in electronics almost 50 years ago, entered in a different type of trade which had little to do with what I was trained for and picked up my old ham hobby only recently. I feel I missed a lot, in all those years. But I'm learning every day!
With the help of John, M0TIF, I succeeded in mastering my Velleman PIC-programmer, WinPic and part of MPLAB today.

Thanks for your help, I do appreciate it!

Regards,

Ron de pa0rcl

----- Original Message -----
From: Nigel Gunn G8IFF/W8IFF
To: mkars80@...
Sent: Tuesday, February 03, 2009 3:38 PM
Subject: Re: [mkars80] PIC-programming - HELP!

Now now Ron, no need to put yourself down.

The only problem would come if the hex file included some sort of checksum or parity information that would need to be
recalculated. Perhaps someone can advise on that. Otherwise, a hex file editor might be the easiest way to simply change
a text string.

pa0rcl wrote:
> Probably because I'm too stupid, Nigel. I'm from the tube age, you see!
>
> 73
>
> Ron de pa0rcl
>

[Non-text portions of this message have been removed]

603. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 15:52:30 UTC
From: g3oth
Topic: 596 Message: 603

Good afternoon Ron, congratulations on your achievements, I have been following your progress with the Vellermann programmer for the past few days with interest, as you know I am from your era and had also been thinking about purchasing a Vellermann kit next time I am in town. A couple of weeks back it was pointed out that this kit cannot be easily used with a USB / Serial port adapter, although I think there may be ways around this. I was wondering therefore how you are driving your kit (Serial Parallel USB or otherwise) and details of your platform and PC ? If at all possible I would very much prefer to use my laptop (Windows XP Pro and USB only) with an outboard USB to Serial convertor that I already have here, rather than have to use my old retired PCs in the garage. Any suggestions or help would be appreciated about compatability of the Vellermann kit and what files to use with my present setup.
73 de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, "pa0rcl" <pa0rcl@...> wrote:
>
> Hello Nigel,
>
> Well, OK, perhaps I'm not exactly stupid but simply ignorant regarding PICs and the like. I had my training in electronics almost 50 years ago, entered in a different type of trade which had little to do with what I was trained for and picked up my old ham hobby only recently. I feel I missed a lot, in all those years. But I'm learning every day!
> With the help of John, M0TIF, I succeeded in mastering my Velleman PIC-programmer, WinPic and part of MPLAB today.
>
> Thanks for your help, I do appreciate it!
>
> Regards,
>
> Ron de pa0rcl
>
> ----- Original Message -----
> From: Nigel Gunn G8IFF/W8IFF
> To: mkars80@...
> Sent: Tuesday, February 03, 2009 3:38 PM
> Subject: Re: [mkars80] PIC-programming - HELP!
>
>
>
> Now now Ron, no need to put yourself down.
>
> The only problem would come if the hex file included some sort of

checksum or parity information that would need to be
> recalculated. Perhaps someone can advise on that. Otherwise, a
hex file editor might be the easiest way to simply change
> a text string.
>
> pa0rcl wrote:
> > Probably because I'm too stupid, Nigel. I'm from the tube age,
you see!
> >
> > 73
> >
> > Ron de pa0rcl
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

604. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 16:08:59 UTC
From: pa0rcl
Topic: 596 Message: 604

Hello Charles,

Nice to hear from you again. The Velleman K8048 manual explicitly states that serial to USB converters CANNOT be used. I have not checked this, I take their word for it, hi. I have some computers here that are like me, retired, but have RS232 COM-ports. For my PIC-project I found an old Sony laptop with a COM-port, running WIN200O Pro. Thanks to John I was able to make it all work.
Maybe there are more modern ways to program the PIC16F818, but I have not found one.
Anyway, I do not think I will be burning PICs every day so I am happy with what I have now.
Good luck and if I can be of any help I will be happy to.

73 Ron de pa0rcl

----- Original Message -----
From: g3oth
To: mkars80@...
Sent: Tuesday, February 03, 2009 4:52 PM
Subject: [mkars80] Re: PIC-programming - HELP!

Good afternoon Ron, congratulations on your achievements, I have been following your progress with the Vellermann programmer for the past few days with interest, as you know I am from your era and had also been thinking about purchasing a Vellermann kit next time I am in town. A couple of weeks back it was pointed out that this kit cannot be easily used with a USB / Serial port adapter, although I think there may be ways around this. I was wondering therefore how you are driving your kit (Serial Parallel USB or otherwise) and details of your platform and PC ? If at all possible I would very much prefer to use my laptop (Windows XP Pro and USB only) with an outboard USB to Serial convertor that I already have here, rather than have to use my old retired PCs in the garage. Any suggestions or help would be appreciated about compatability of the Vellermann kit and what files to use with my present setup.
73 de Charles G3OTH

--- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> Hello Nigel,
>
> Well, OK, perhaps I'm not exactly stupid but simply ignorant regarding PICs and the like. I had my training in electronics almost 50 years ago, entered in a different type of trade which had little to do with what I was trained for and picked up my old ham hobby only recently. I feel I missed a lot, in all those years. But I'm learning every day!
> With the help of John, M0TIF, I succeeded in mastering my Velleman

PIC-programmer, WinPic and part of MPLAB today.
>
> Thanks for your help, I do appreciate it!
>
> Regards,
>
> Ron de pa0rcl
>
> ----- Original Message -----
> From: Nigel Gunn G8IFF/W8IFF
> To: mkars80@...
> Sent: Tuesday, February 03, 2009 3:38 PM
> Subject: Re: [mkars80] PIC-programming - HELP!
>
>
> Now now Ron, no need to put yourself down.
>
> The only problem would come if the hex file included some sort of
checksum or parity information that would need to be
> recalculated. Perhaps someone can advise on that. Otherwise, a
hex file editor might be the easiest way to simply change
> a text string.
>
> pa0rcl wrote:
> > Probably because I'm too stupid, Nigel. I'm from the tube age,
you see!
> >
> > 73
> >
> > Ron de pa0rcl
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

605. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 17:21:10 UTC
From: g3oth
Topic: 596 Message: 605

FB Ron, thanks for your info, well from reading earlier mails on this subject no one on this group so far has succeeded in using this programmer with a USB / Serial convertor with Windows rather than the person who experienced success with Linux. Since it appears to be compatable with the Linux operating system it struck me that this issue is not to do with the fact that a maximum of only 5 volts is available at the USB port, but is a software file problem, or am I mistaken, anyone out there no the likely reason ?
In addition I think, although I may have misunderstood this, the Vellermann kit needs an independent external DC source as well as the PC port to make it work, so presumably the "burning voltages" come from it and are therefore independent of PC and operating system, so can you maybe please confirm this for me Ron.
73 de Charles G3OTH

-- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> Hello Charles,
>
> Nice to hear from you again. The Velleman K8048 manual explicitly states that serial to USB converters CANNOT be used. I have not checked this, I take their word for it, hi. I have some computers here that are like me, retired, but have RS232 COM-ports. For my PIC-project I found an old Sony laptop with a COM-port, running WIN200O Pro. Thanks to John I was able to make it all work.
> Maybe there are more modern ways to program the PIC16F818, but I have not found one. Anyway, I do not think I will be burning PICs every day so I am happy with what I have now.
> Good luck and if I can be of any help I will be happy to.
>
> 73 Ron de pa0rcl
>
>
> ----- Original Message -----
> From: g3oth
> To: mkars80@...
> Sent: Tuesday, February 03, 2009 4:52 PM
> Subject: [mkars80] Re: PIC-programming - HELP!
>
>
> Good afternoon Ron, congratulations on your achievements, I have been
> following your progress with the Vellermann programmer for the past
> few days with interest, as you know I am from your era and had

also
> been thinking about purchasing a Vellermann kit next time I am in
> town. A couple of weeks back it was pointed out that this kit
cannot
> be easily used with a USB / Serial port adapter, although I think
> there may be ways around this. I was wondering therefore how you
are
> driving your kit (Serial Parallel USB or otherwise) and details
of
> your platform and PC ? If at all possible I would very much
prefer to
> use my laptop (Windows XP Pro and USB only) with an outboard USB
to
> Serial convertor that I already have here, rather than have to
use my
> old retired PCs in the garage. Any suggestions or help would be
> appreciated about compatability of the Vellermann kit and what
files
> to use with my present setup.
> 73 de Charles G3OTH
>
> --- In mkars80@yahoogroups.co.uk, "pa0rcl" <pa0rcl@> wrote:
> >
> > Hello Nigel,
> >
> > Well, OK, perhaps I'm not exactly stupid but simply ignorant
> regarding PICs and the like. I had my training in electronics
almost
> 50 years ago, entered in a different type of trade which had
little
> to do with what I was trained for and picked up my old ham hobby
only
> recently. I feel I missed a lot, in all those years. But I'm
learning
> every day!
> > With the help of John, M0TIF, I succeeded in mastering my
Velleman
> PIC-programmer, WinPic and part of MPLAB today.
> >
> > Thanks for your help, I do appreciate it!
> >
> > Regards,
> >
> > Ron de pa0rcl
> >
> > ----- Original Message -----
> > From: Nigel Gunn G8IFF/W8IFF
> > To: mkars80@...
> > Sent: Tuesday, February 03, 2009 3:38 PM
> > Subject: Re: [mkars80] PIC-programming - HELP!

> >
> >
> > Now now Ron, no need to put yourself down.
> >
> > The only problem would come if the hex file included some sort
of
> checksum or parity information that would need to be
> > recalculated. Perhaps someone can advise on that. Otherwise, a
> hex file editor might be the easiest way to simply change
> > a text string.
> >
> > pa0rcl wrote:
> > > Probably because I'm too stupid, Nigel. I'm from the tube
age,
> you see!
> > >
> > > 73
> > >
> > > Ron de pa0rcl
> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

606. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 17:26:04 UTC
From: g3oth
Topic: 596 Message: 606

```
--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
anyone out there no the likely reason ?
>
Sorry to English native readers for "no" read "know"
I should "know" better at my age Hi Hi
Charles G3OTH
```

607. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 18:27:08 UTC
From: pa0rcl
Topic: 596 Message: 607

Even non-native English readers like me were able to understand what you meant, Charles, no problem.

The Velleman K8084 PIC programmer uses its own power source for the burning voltages indeed. I must say it works fine, perhaps i offers too much for what I intend to do with it, but as a kit it is not too expensive and can be built quickly.

Good luck,

73 Ron de pa0rcl

Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:

> --- In mkars80@..., "g3oth" <g3oth@...> wrote:
> >
> anyone out there no the likely reason ?
> >
> Sorry to English native readers for "no" read "know"
> I should "know" better at my age Hi Hi
> Charles G3OTH
>
>
>

73 Ron pa0rcl

[Non-text portions of this message have been removed]

608. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:18:51 UTC
From: Steve Drury
Topic: 596 Message: 608

Glad you are getting the hang of it Ron. How about changing other features of the firmware more to your liking - perhaps start by removing the last digit and replacing it with an "M", this shouldn't be too hard.

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Tuesday, February 03, 2009 6:27 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

> Even non-native English readers like me were able to understand what
> you meant, Charles, no problem.
>
> The Velleman K8084 PIC programmer uses its own power source for the
> burning voltages indeed. I must say it works fine, perhaps i offers
> too much for what I intend to do with it, but as a kit it is not too
> expensive and can be built quickly.
>
> Good luck,
>
> 73 Ron de pa0rcl
>
>
>
> Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
>
>> --- In mkars80@..., "g3oth" <g3oth@...> wrote:
>> >
>> anyone out there no the likely reason ?
>> >
>> Sorry to English native readers for "no" read "know"
>> I should "know" better at my age Hi Hi
>> Charles G3OTH
>>
>>
>>
>
>
>
> 73 Ron pa0rcl
>
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
>
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.233 / Virus Database: 270.10.16/1930 - Release Date: 2/2/2009
7:51 AM

609. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:25:12 UTC
From: g3oth
Topic: 596 Message: 609

Thanks Ron, I know you have an excellent command of English, since posting my message I have come across this web site http://forum.velleman.be/viewtopic.php?f=4&t=56
It makes an interesting read as someone is still claiming it can be adapted to USB in spite of many other denials on that site.
Officially Velleman (I got the spelling right that time) claim it is impossible and recommend using their Pickit2 for USB, so out of interest I am going to look this up but expect it will more expensive.
Maybe others will add their comments on here later.
73 de charles G3OTH

--- In mkars80@yahoogroups.co.uk, pa0rcl <pa0rcl@...> wrote:
>
> Even non-native English readers like me were able to understand what
> you meant, Charles, no problem.
>
> The Velleman K8084 PIC programmer uses its own power source for the
> burning voltages indeed. I must say it works fine, perhaps i offers
> too much for what I intend to do with it, but as a kit it is not too
> expensive and can be built quickly.
>
> Good luck,
>
> 73 Ron de pa0rcl
>
>
>
> Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
>
> > --- In mkars80@..., "g3oth" <g3oth@> wrote:
> > >
> > anyone out there no the likely reason ?
> > >
> > Sorry to English native readers for "no" read "know"
> > I should "know" better at my age Hi Hi
> > Charles G3OTH
> > >
> > >
> > >
>
>

>
> 73 Ron pa0rcl
>
>
>
>
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>
>
> [Non-text portions of this message have been removed]
>

610. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:27:08 UTC
From: pa0rcl
Topic: 596 Message: 610

Well, not too hard for you I'm sure, Steve, but my PIC experience is only one day old. I have little or no understanding of what the code in the .asm file really does, although your annotations are a big help. I think I found the lines where the last digit can be suppressed (Buffer_6 call send_char ; 1Hz)?
But since I do not know what I am doing, it is really a matter of trail and error. And time...

Thanks and 73

Ron pa0rcl

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, February 03, 2009 8:18 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

Glad you are getting the hang of it Ron. How about changing other features
of the firmware more to your liking - perhaps start by removing the last
digit and replacing it with an "M", this shouldn't be too hard.

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Tuesday, February 03, 2009 6:27 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

> Even non-native English readers like me were able to understand what
> you meant, Charles, no problem.
>
> The Velleman K8084 PIC programmer uses its own power source for the
> burning voltages indeed. I must say it works fine, perhaps i offers
> too much for what I intend to do with it, but as a kit it is not too
> expensive and can be built quickly.
>
> Good luck,
>
> 73 Ron de pa0rcl
>
>
>
> Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
>
>> --- In mkars80@..., "g3oth" <g3oth@...> wrote:
>> >

>> anyone out there no the likely reason ?
>> >
>> Sorry to English native readers for "no" read "know"
>> I should "know" better at my age Hi Hi
>> Charles G3OTH
>>
>>
>>
>
>
>
> 73 Ron pa0rcl
>
>
>
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>
>
>
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.233 / Virus Database: 270.10.16/1930 - Release Date: 2/2/2009
7:51 AM

[Non-text portions of this message have been removed]

611. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:31:01 UTC
From: pa0rcl
Topic: 596 Message: 611

Charles, I hope the members of our group can help you as good as they did me!

Wish you all the best,

Ron pa0rcl

----- Original Message -----
From: g3oth
To: mkars80@...
Sent: Tuesday, February 03, 2009 8:25 PM
Subject: [mkars80] Re: PIC-programming - HELP!

Thanks Ron, I know you have an excellent command of English, since
posting my message I have come across this web site
http://forum.velleman.be/viewtopic.php?f=4&t=56
It makes an interesting read as someone is still claiming it can be
adapted to USB in spite of many other denials on that site.
Officially Velleman (I got the spelling right that time) claim it is
impossible and recommend using their Pickit2 for USB, so out of
interest I am going to look this up but expect it will more expensive.
Maybe others will add their comments on here later.
73 de charles G3OTH

--- In mkars80@..., pa0rcl <pa0rcl@...> wrote:
>
> Even non-native English readers like me were able to understand
what
> you meant, Charles, no problem.
>
> The Velleman K8084 PIC programmer uses its own power source for
the
> burning voltages indeed. I must say it works fine, perhaps i
offers
> too much for what I intend to do with it, but as a kit it is not
too
> expensive and can be built quickly.
>
> Good luck,
>
> 73 Ron de pa0rcl
>
>
>
> Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
>
> > --- In mkars80@..., "g3oth" <g3oth@> wrote:

> > >
> > anyone out there no the likely reason ?
> > >
> > Sorry to English native readers for "no" read "know"
> > I should "know" better at my age Hi Hi
> > Charles G3OTH
> >
> >
> >
>
>
>
> 73 Ron pa0rcl
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

612. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:36:53 UTC
From: Steve Drury
Topic: 596 Message: 612

To get rid of that line simply put a semicolon (;) in front of it and it
will change colour. To add the "M" find the text near the start of the
program "Hz" and add an "M".

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Tuesday, February 03, 2009 7:27 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

> Well, not too hard for you I'm sure, Steve, but my PIC experience is only
> one day old. I have little or no understanding of what the code in the
> .asm file really does, although your annotations are a big help. I think I
> found the lines where the last digit can be suppressed (Buffer_6 call
> send_char ; 1Hz)?
> But since I do not know what I am doing, it is really a matter of trail
> and error. And time...
>
> Thanks and 73
>
> Ron pa0rcl
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Tuesday, February 03, 2009 8:18 PM
> Subject: Re: [mkars80] Re: PIC-programming - HELP!
>
>
>
> Glad you are getting the hang of it Ron. How about changing other
> features
> of the firmware more to your liking - perhaps start by removing the last
> digit and replacing it with an "M", this shouldn't be too hard.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Tuesday, February 03, 2009 6:27 PM
> Subject: Re: [mkars80] Re: PIC-programming - HELP!
>
> > Even non-native English readers like me were able to understand what

> > you meant, Charles, no problem.
> >
> > The Velleman K8084 PIC programmer uses its own power source for the
> > burning voltages indeed. I must say it works fine, perhaps i offers
> > too much for what I intend to do with it, but as a kit it is not too
> > expensive and can be built quickly.
> >
> > Good luck,
> >
> > 73 Ron de pa0rcl
> >
> >
> >
> > Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
> >
> >> --- In mkars80@..., "g3oth" <g3oth@...> wrote:
> >> >
> >> anyone out there no the likely reason ?
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> >> Sorry to English native readers for "no" read "know"
> >> I should "know" better at my age Hi Hi
> >> Charles G3OTH
> >>
> >>
> >>
> > >
> > >
> > >
> > > 73 Ron pa0rcl
> > >
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> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
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> > >
> > > Yahoo! Groups Links
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> > >
>
> --
>
> No virus found in this incoming message.
> Checked by AVG - http://www.avg.com

> Version: 8.0.233 / Virus Database: 270.10.16/1930 - Release Date:
> 2/2/2009
> 7:51 AM
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.233 / Virus Database: 270.10.17/1932 - Release Date: 02/02/09
07:51:00

613. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:37:37 UTC
From: g3oth
Topic: 596 Message: 613

Ron and Steve, apparently this is Vellemans latest offering:
http://www.velleman.be/be/en/product/view/?id=376318
I couldn't find a price, availability or if available in kit form.
Anyone know these details and is it any good as I am not qualified to
make a judgement.
Thanks Charles G3OTH

--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> Thanks Ron, I know you have an excellent command of English, since
> posting my message I have come across this web site
> http://forum.velleman.be/viewtopic.php?f=4&t=56
> It makes an interesting read as someone is still claiming it can be
> adapted to USB in spite of many other denials on that site.
> Officially Velleman (I got the spelling right that time) claim it
is
> impossible and recommend using their Pickit2 for USB, so out of
> interest I am going to look this up but expect it will more
expensive.
> Maybe others will add their comments on here later.
> 73 de charles G3OTH
>
>
> --- In mkars80@..., pa0rcl <pa0rcl@> wrote:
> >
> > Even non-native English readers like me were able to understand
> what
> > you meant, Charles, no problem.
> >
> > The Velleman K8084 PIC programmer uses its own power source for
> the
> > burning voltages indeed. I must say it works fine, perhaps i
> offers
> > too much for what I intend to do with it, but as a kit it is not
> too
> > expensive and can be built quickly.
> >
> > Good luck,
> >
> > 73 Ron de pa0rcl
> >
> >
> >
> > Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
> >

> > > --- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@> wrote:
> > > >
> > > anyone out there no the likely reason ?
> > > >
> > > Sorry to English native readers for "no" read "know"
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> > > Charles G3OTH
> > >
> > >
> > >
> >
> >
> >
> > 73 Ron pa0rcl
> >
> >
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

614. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:39:23 UTC
From: pa0rcl
Topic: 596 Message: 614

We'll try Steve, thanks for the clue!

73 Ron pa0rcl

[Non-text portions of this message have been removed]

615. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:41:27 UTC
From: pa0rcl
Topic: 596 Message: 615

Charles, I had looked at this programmer, too, but it does not seem to support 18-pin PICs, alas. At least this is what Velleman says. So.......

73 Ron pa0rcl

----- Original Message -----
From: g3oth
To: mkars80@...
Sent: Tuesday, February 03, 2009 8:37 PM
Subject: [mkars80] Re: PIC-programming - HELP!

Ron and Steve, apparently this is Vellemans latest offering:
http://www.velleman.be/be/en/product/view/?id=376318
I couldn't find a price, availability or if available in kit form.
Anyone know these details and is it any good as I am not qualified to
make a judgement.
Thanks Charles G3OTH

--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> Thanks Ron, I know you have an excellent command of English, since
> posting my message I have come across this web site
> http://forum.velleman.be/viewtopic.php?f=4&t=56
> It makes an interesting read as someone is still claiming it can be
> adapted to USB in spite of many other denials on that site.
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> impossible and recommend using their Pickit2 for USB, so out of
> interest I am going to look this up but expect it will more
expensive.
> Maybe others will add their comments on here later.
> 73 de charles G3OTH
>
>
> --- In mkars80@..., pa0rcl <pa0rcl@> wrote:
> >
> > Even non-native English readers like me were able to understand
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> > you meant, Charles, no problem.
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> > The Velleman K8084 PIC programmer uses its own power source for
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> > Good luck,
> >
> > 73 Ron de pa0rcl
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> >
> > Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
> >
> > > --- In mkars80@..., "g3oth" <g3oth@> wrote:
> > > >
> > > anyone out there no the likely reason ?
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> > > Charles G3OTH
> > > >
> > > >
> > > >
> > >
> > >
> > >
> > > 73 Ron pa0rcl
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
>

[Non-text portions of this message have been removed]

616. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:47:24 UTC
From: g3oth
Topic: 596 Message: 616

Well I can see one problem straightaway it does not support 18 Pin
DILS...so back to the drawing board I guess.
Charles

--- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@...> wrote:
>
> Ron and Steve, apparently this is Vellemans latest offering:
> http://www.velleman.be/be/en/product/view/?id=376318
> I couldn't find a price, availability or if available in kit form.
> Anyone know these details and is it any good as I am not qualified
to
> make a judgement.
> Thanks Charles G3OTH
>
> --- In mkars80@....uk, "g3oth" <g3oth@> wrote:
> >
> > Thanks Ron, I know you have an excellent command of English,
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> > http://forum.velleman.be/viewtopic.php?f=4&t=56
> > It makes an interesting read as someone is still claiming it can
be
> > adapted to USB in spite of many other denials on that site.
> > Officially Velleman (I got the spelling right that time) claim it
> is
> > impossible and recommend using their Pickit2 for USB, so out of
> > interest I am going to look this up but expect it will more
> expensive.
> > Maybe others will add their comments on here later.
> > 73 de charles G3OTH
> >
> >
> > --- In mkars80@..., pa0rcl <pa0rcl@> wrote:
> > >
> > > Even non-native English readers like me were able to understand
> > what
> > > you meant, Charles, no problem.
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> > offers
> > > too much for what I intend to do with it, but as a kit it is
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> > > expensive and can be built quickly.
> > >
> > > Good luck,
> > >
> > > 73 Ron de pa0rcl
> > >
> > >
> > >
> > > Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
> > >
> > > > --- In mkars80@..., "g3oth" <g3oth@> wrote:
> > > > >
> > > > anyone out there no the likely reason ?
> > > > >
> > > > Sorry to English native readers for "no" read "know"
> > > > I should "know" better at my age Hi Hi
> > > > Charles G3OTH
> > > > >
> > > > >
> > > > >
> > > >
> > > >
> > > >
> > > > 73 Ron pa0rcl
> > > >
> > > >
> > > >
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> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
>

617. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:48:54 UTC
From: g3oth
Topic: 596 Message: 617

Snap Ron, we posted this together Hi Hi
Charles

--- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@...> wrote:
>
> Well I can see one problem straightaway it does not support 18 Pin
> DILS...so back to the drawing board I guess.
> Charles
>
> --- In mkars80@..., "g3oth" <g3oth@> wrote:
> >
> > Ron and Steve, apparently this is Vellemans latest offering:
> > http://www.velleman.be/be/en/product/view/?id=376318
> > I couldn't find a price, availability or if available in kit form.
> > Anyone know these details and is it any good as I am not
qualified
> to
> > make a judgement.
> > Thanks Charles G3OTH
> >
> > --- In mkars80@..., "g3oth" <g3oth@> wrote:
> > >
> > > Thanks Ron, I know you have an excellent command of English,
> since
> > > posting my message I have come across this web site
> > > http://forum.velleman.be/viewtopic.php?f=4&t=56
> > > It makes an interesting read as someone is still claiming it
can
> be
> > > adapted to USB in spite of many other denials on that site.
> > > Officially Velleman (I got the spelling right that time) claim
it
> > is
> > > impossible and recommend using their Pickit2 for USB, so out of
> > > interest I am going to look this up but expect it will more
> > expensive.
> > > Maybe others will add their comments on here later.
> > > 73 de charles G3OTH
> > >
> > >
> > > --- In mkars80@..., pa0rcl <pa0rcl@> wrote:
> > > >
> > > > Even non-native English readers like me were able to
understand
> > > what

> > > > you meant, Charles, no problem.
> > > >
> > > > The Velleman K8084 PIC programmer uses its own power source
for
> > > the
> > > > burning voltages indeed. I must say it works fine, perhaps i
> > > offers
> > > > too much for what I intend to do with it, but as a kit it is
> not
> > > too
> > > > expensive and can be built quickly.
> > > >
> > > > Good luck,
> > > >
> > > > 73 Ron de pa0rcl
> > > >
> > > >
> > > >
> > > > Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
> > > >
> > > > > --- In mkars80@..., "g3oth" <g3oth@> wrote:
> > > > > >
> > > > > anyone out there no the likely reason ?
> > > > > >
> > > > > Sorry to English native readers for "no" read "know"
> > > > > I should "know" better at my age Hi Hi
> > > > > Charles G3OTH
> > > > >
> > > > >
> > > > >
> > > >
> > > >
> > > >
> > > > 73 Ron pa0rcl
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

618. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:49:13 UTC
From: pa0rcl
Topic: 596 Message: 618

...or dust off a PC from the garage.....

[Non-text portions of this message have been removed]

619. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 19:58:28 UTC
From: g3oth
Topic: 596 Message: 619

Maybe that is what I will have to do afterall .....

--- In mkars80@yahoogroups.co.uk, "pa0rcl" <pa0rcl@...> wrote:
>
> ...or dust off a PC from the garage.....
>
>
>
> [Non-text portions of this message have been removed]
>

620. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 20:31:02 UTC
From: John
Topic: 596 Message: 620

Hi,

I'm not sure if it's of any interest but I posted this message in early January about a very nice little programmer which covers an amazing amount of different devices:-

Hi Tony,
I'm not sure if this helps but I bought a programmer from a guy in China via Ebay last November and the service was good as was the unit. I just checked and they are still available at the same price.

It's connected via a USB port so there is no need for any external supply although one can be connected if the port cannot supply more than 200Ma. It has a 40 pin ZIF socket so it can handle quite a lot of devices.The software is quite reasonable too.

If you would like any other info please let me know.

It works out at about 38 Euro.
73,

John.

621. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 20:53:43 UTC
From: John Housego
Topic: 596 Message: 621

Hello Charles,

I have spent ages trying to get K8048 working via USB using windows 98 / XP and Vista with no luck at all. Primarily I use Linux and cant even get it to work on USB with that. I have found a number of links on the Internet saying it is possible but the secret never seems to be advised!

Like Ron I use a very old laptop which I picked up for a few pounds with serial port, perfect for the K8048 and some other radio related projects that insist on serial port.

John (M0TIF)

On Tue, 2009-02-03 at 17:21 +0000, g3oth wrote:
> FB Ron, thanks for your info, well from reading earlier mails on this
> subject no one on this group so far has succeeded in using this
> programmer with a USB / Serial convertor with Windows rather than the
> person who experienced success with Linux. Since it appears to be
> compatable with the Linux operating system it struck me that this
> issue is not to do with the fact that a maximum of only 5 volts is
> available at the USB port, but is a software file problem, or am I
> mistaken, anyone out there no the likely reason ?
> In addition I think, although I may have misunderstood this, the
> Vellermann kit needs an independent external DC source as well as the
> PC port to make it work, so presumably the "burning voltages" come
> from it and are therefore independent of PC and operating system, so
> can you maybe please confirm this for me Ron.
> 73 de Charles G3OTH
>
> -- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
> >
> > Hello Charles,
> >
> > Nice to hear from you again. The Velleman K8048 manual explicitly
> states that serial to USB converters CANNOT be used. I have not
> checked this, I take their word for it, hi. I have some computers
> here that are like me, retired, but have RS232 COM-ports. For my PIC-
> project I found an old Sony laptop with a COM-port, running WIN200O
> Pro. Thanks to John I was able to make it all work.
> > Maybe there are more modern ways to program the PIC16F818, but I
> have not found one. Anyway, I do not think I will be burning PICs
> every day so I am happy with what I have now.
> > Good luck and if I can be of any help I will be happy to.
> >
> > 73 Ron de pa0rcl

> >
> >
> > ----- Original Message -----
> > From: g3oth
> > To: mkars80@...
> > Sent: Tuesday, February 03, 2009 4:52 PM
> > Subject: [mkars80] Re: PIC-programming - HELP!
> >
> >
> > Good afternoon Ron, congratulations on your achievements, I have
> been
> > following your progress with the Vellermann programmer for the
> past
> > few days with interest, as you know I am from your era and had
> also
> > been thinking about purchasing a Vellermann kit next time I am in
> > town. A couple of weeks back it was pointed out that this kit
> cannot
> > be easily used with a USB / Serial port adapter, although I think
> > there may be ways around this. I was wondering therefore how you
> are
> > driving your kit (Serial Parallel USB or otherwise) and details
> of
> > your platform and PC ? If at all possible I would very much
> prefer to
> > use my laptop (Windows XP Pro and USB only) with an outboard USB
> to
> > Serial convertor that I already have here, rather than have to
> use my
> > old retired PCs in the garage. Any suggestions or help would be
> > appreciated about compatability of the Vellermann kit and what
> files
> > to use with my present setup.
> > 73 de Charles G3OTH
> >
> > --- In mkars80@..., "pa0rcl" <pa0rcl@> wrote:
> > >
> > > Hello Nigel,
> > >
> > > Well, OK, perhaps I'm not exactly stupid but simply ignorant
> > regarding PICs and the like. I had my training in electronics
> almost
> > 50 years ago, entered in a different type of trade which had
> little
> > to do with what I was trained for and picked up my old ham hobby
> only
> > recently. I feel I missed a lot, in all those years. But I'm
> learning
> > every day!
> > > With the help of John, M0TIF, I succeeded in mastering my

> Velleman
> > PIC-programmer, WinPic and part of MPLAB today.
> > >
> > > Thanks for your help, I do appreciate it!
> > >
> > > Regards,
> > >
> > > Ron de pa0rcl
> > >
> > > ----- Original Message -----
> > > From: Nigel Gunn G8IFF/W8IFF
> > > To: mkars80@...
> > > Sent: Tuesday, February 03, 2009 3:38 PM
> > > Subject: Re: [mkars80] PIC-programming - HELP!
> > >
> > >
> > > Now now Ron, no need to put yourself down.
> > >
> > > The only problem would come if the hex file included some sort
> of
> > checksum or parity information that would need to be
> > > recalculated. Perhaps someone can advise on that. Otherwise, a
> > hex file editor might be the easiest way to simply change
> > > a text string.
> > >
> > > pa0rcl wrote:
> > > > Probably because I'm too stupid, Nigel. I'm from the tube
> age,
> > you see!
> > > > >
> > > > 73
> > > > >
> > > > Ron de pa0rcl
> > > > >
> > > >
> > > >
> > > >
> > > >
> > > [Non-text portions of this message have been removed]
> > >
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> >
> > [Non-text portions of this message have been removed]
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>

[Non-text portions of this message have been removed]

622. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 21:05:00 UTC
From: Steve Drury
Topic: 596 Message: 622

For something more advanced how about making the display flash on and off as a warning when the battery gets low in voltage or perhaps when the VFO is about to jump?

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Tuesday, February 03, 2009 7:39 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

> We'll try Steve, thanks for the clue!
>
> 73 Ron pa0rcl
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.233 / Virus Database: 270.10.17/1932 - Release Date: 02/02/09 07:51:00

623. MKARS80 with last digit (Hz) suppressed

Yahoo group: mkars80
Date: 2009-02-03 21:08:18 UTC
From: Ron
Topic: 623 Message: 623

Hello Steve and all,

Easier than I had anticipated I was able to modify the PIC16F818's code to suppress the Hz digit (and also display MHz again). I thought it would make tuning easier. Personally, I was not too interested in the Hz digit as in SSB the last 10 Hz do not matter much for voice readability. Also, all my other rigs do not display the Hz digit, I thought not for no reason.
To cut a long story short, suppressing the Hz digit does make tuning a little easier indeed, but not much. I will leave the present setting for a few days to gain more experience. One advantage is that the + sign indicating the H+P centre comes out better on the display as there is no character on top of it any more, hi.

73 and enjoy the hobby,

Ron pa0rcl

624. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 21:09:59 UTC
From: pa0rcl
Topic: 596 Message: 624

Sounds nice, Steve, but I do'n't think I can do that....

73

Ron pa0rcl

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, February 03, 2009 10:05 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

For something more advanced how about making the display flash on and off as
a warning when the battery gets low in voltage or perhaps when the VFO is
about to jump?

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Tuesday, February 03, 2009 7:39 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

> We'll try Steve, thanks for the clue!
>
> 73 Ron pa0rcl
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.233 / Virus Database: 270.10.17/1932 - Release Date: 02/02/09
07:51:00

[Non-text portions of this message have been removed]

625. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 21:15:58 UTC
From: Steve Drury
Topic: 596 Message: 625

Its not that hard just needs some thought... I will put how to do it on the group sometime so you can experiment, thats the best way to learn to program.

If you really want to you can tidy up my messy timing loop at the begining of the code, won't make it work any better but the code will look nicer!

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Tuesday, February 03, 2009 9:09 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

> Sounds nice, Steve, but I do'n't think I can do that....
>
> 73
>
> Ron pa0rcl
>
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Tuesday, February 03, 2009 10:05 PM
> Subject: Re: [mkars80] Re: PIC-programming - HELP!
>
>
> For something more advanced how about making the display flash on and off
> as
> a warning when the battery gets low in voltage or perhaps when the VFO is
> about to jump?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Tuesday, February 03, 2009 7:39 PM
> Subject: Re: [mkars80] Re: PIC-programming - HELP!
>
> > We'll try Steve, thanks for the clue!
> >
> > 73 Ron pa0rcl

> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> --
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.233 / Virus Database: 270.10.17/1932 - Release Date:
> 02/02/09
> 07:51:00
>
>
>
>
>
> [Non-text portions of this message have been removed]
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>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.233 / Virus Database: 270.10.17/1932 - Release Date: 02/02/09
07:51:00

626. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 21:30:35 UTC
From: pa0rcl
Topic: 596 Message: 626

In the near future I'll try to find out how the code is put together. My programming experience -if I can call it that- goes back to the eighties when I wrote simple software in Basic for my Sinclair Spectrum.....
I'll wait for your input, there is no particular rush and I understand you're very busy, particularly since the MKARS80 sales are booming.

73

Ron pa0rcl

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, February 03, 2009 10:15 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

Its not that hard just needs some thought... I will put how to do it on the group sometime so you can experiment, thats the best way to learn to program.

If you really want to you can tidy up my messy timing loop at the begining of the code, won't make it work any better but the code will look nicer!

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <pa0rcl@...>
To: <mkars80@...>
Sent: Tuesday, February 03, 2009 9:09 PM
Subject: Re: [mkars80] Re: PIC-programming - HELP!

> Sounds nice, Steve, but I do'n't think I can do that....
>
> 73
>
> Ron pa0rcl
>
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Tuesday, February 03, 2009 10:05 PM
> Subject: Re: [mkars80] Re: PIC-programming - HELP!
>
>
> For something more advanced how about making the display flash on and off

> as
> a warning when the battery gets low in voltage or perhaps when the VFO is
> about to jump?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Tuesday, February 03, 2009 7:39 PM
> Subject: Re: [mkars80] Re: PIC-programming - HELP!
>
> > We'll try Steve, thanks for the clue!
> >
> > 73 Ron pa0rcl
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> --
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
>
>

>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.233 / Virus Database: 270.10.17/1932 - Release Date: 02/02/09
07:51:00

[Non-text portions of this message have been removed]

627. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 22:37:12 UTC
From: g3oth
Topic: 596 Message: 627

Hi John, yes I did see your earlier posting but thanks again for the reminder.
Since my on-list chat with Ron earlier tonight I have trawled eBay and found what I think are the programmers you are referring to and have taken the plunge and ordered one from Shanghai !
So now I am in at the deep end Ron, but if it pays off and I get the support they have promised I should have something which meets my needs for a while as it seems to be a very versatile unit, but I may need to pick someone's brains later, so hope you John are able to provide some of the answers to my questions by then Hi Hi.
Thanks and 73 de Charles G3OTH

--- In mkars80@..., "John" <john.g4gcl@...> wrote:
>
>
>
> Hi,
>
> I'm not sure if it's of any interest but I posted this message in early
> January about a very nice little programmer which covers an amazing
> amount of different devices:-
>
> Hi Tony,
> I'm not sure if this helps but I bought a programmer from a guy in
> China via Ebay last November and the service was good as was the
> unit. I just checked and they are still available at the same price.
>
> It's connected via a USB port so there is no need for any external
> supply although one can be connected if the port cannot supply more
> than 200Ma. It has a 40 pin ZIF socket so it can handle quite a lot of
> devices.The software is quite reasonable too.
>
> If you would like any other info please let me know.
>
> It works out at about 38 Euro.
> 73,
>
> John.
>

628. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-03 23:31:25 UTC
From: pa0rcl
Topic: 596 Message: 628

Could you give me the link to this item on eBay, Charles, perhaps
I'll buy one, too.
Thnaks,

Ron pa0rcl

Op 3-feb-2009, om 23:37 heeft g3oth het volgende geschreven:

> Hi John, yes I did see your earlier posting but thanks again for the
> reminder.
> Since my on-list chat with Ron earlier tonight I have trawled eBay
> and found what I think are the programmers you are referring to and
> have taken the plunge and ordered one from Shanghai !
> So now I am in at the deep end Ron, but if it pays off and I get the
> support they have promised I should have something which meets my
> needs for a while as it seems to be a very versatile unit, but I may
> need to pick someone's brains later, so hope you John are able to
> provide some of the answers to my questions by then Hi Hi.
> Thanks and 73 de Charles G3OTH
>
> --- In mkars80@..., "John" <john.g4gcl@...> wrote:
> >
> >
> >
> > Hi,
> >
> > I'm not sure if it's of any interest but I posted this message in
> early
> > January about a very nice little programmer which covers an amazing
> > amount of different devices:-
> >
> > Hi Tony,
> > I'm not sure if this helps but I bought a programmer from a guy in
> > China via Ebay last November and the service was good as was the
> > unit. I just checked and they are still available at the same price.
> >
> > It's connected via a USB port so there is no need for any external
> > supply although one can be connected if the port cannot supply more
> > than 200Ma. It has a 40 pin ZIF socket so it can handle quite a lot
> of
> > devices.The software is quite reasonable too.
> >
> > If you would like any other info please let me know.
> >
> > It works out at about 38 Euro.
> > 73,

> >
> > John.
> >
>
>
>

73 Ron pa0rcl

[Non-text portions of this message have been removed]

629. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 00:05:15 UTC
From: g3oth
Topic: 596 Message: 629

Ron there are at least 2 sellers on there, both are very similar
products if not the same. The one in China is at:
http://cgi.ebay.co.uk/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MEWAX:IT&item=280308152649
But maybe on reflection I should have ordered from Hong Kong as it is
quite a bit cheaper at:
http://cgi.ebay.co.uk/ws/eBayISAPI.dll?
ViewItem&ssPageName=STRK:MEWAX:IT&item=230323309238
73 de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, pa0rcl <pa0rcl@...> wrote:
>
> Could you give me the link to this item on eBay, Charles, perhaps
> I'll buy one, too.
> Thnaks,
>
> Ron pa0rcl
>
>
>
> Op 3-feb-2009, om 23:37 heeft g3oth het volgende geschreven:
>
> > Hi John, yes I did see your earlier posting but thanks again for
the
> > reminder.
> > Since my on-list chat with Ron earlier tonight I have trawled eBay
> > and found what I think are the programmers you are referring to
and
> > have taken the plunge and ordered one from Shanghai !
> > So now I am in at the deep end Ron, but if it pays off and I get
the
> > support they have promised I should have something which meets my
> > needs for a while as it seems to be a very versatile unit, but I
may
> > need to pick someone's brains later, so hope you John are able to
> > provide some of the answers to my questions by then Hi Hi.
> > Thanks and 73 de Charles G3OTH
> >
> > --- In mkars80@..., "John" <john.g4gcl@> wrote:
> > >
> > >
> > >
> > > Hi,
> > >
> > > I'm not sure if it's of any interest but I posted this message

in
> > early
> > > January about a very nice little programmer which covers an
amazing
> > > amount of different devices:-
> > >
> > > Hi Tony,
> > > I'm not sure if this helps but I bought a programmer from a guy
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> > > China via Ebay last November and the service was good as was the
> > > unit. I just checked and they are still available at the same
price.
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> > > It's connected via a USB port so there is no need for any
external
> > > supply although one can be connected if the port cannot supply
more
> > > than 200Ma. It has a 40 pin ZIF socket so it can handle quite a
lot
> > of
> > > devices.The software is quite reasonable too.
> > >
> > > If you would like any other info please let me know.
> > >
> > > It works out at about 38 Euro.
> > > 73,
> > >
> > > John.
> > >
> >
> >
> >
>
>
>
> 73 Ron pa0rcl
>
>
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>
>
>
> [Non-text portions of this message have been removed]
>

630. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 00:13:15 UTC
From: g3oth
Topic: 596 Message: 630

Ron you probably already know that unfortunately Yahoo does not copy long links very well so you will have to manually combine the separate lines shown above to make up the full address and get the link to work in your address bar.
73 agn de Charles G3OTH

631. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 02:33:56 UTC
From: Garry
Topic: 596 Message: 631

Perhaps rather then buy a different programmer you might consider buying a PCI card that provides not one but 2 serial ports for use with your existing programmer. Hopefully I understand correctly what the problem is here. I think I paid about $9 - $11 Can delivered here for a serial card (from Ebay) and it works quite nicely for use with any serial devices that I have tried though I do confess that I have not yet tried it with my serial programmer as I have that connected to an older computer that actually has a serial port.

73

Garry/Ve7ajj

If I'm way off base just ignore me and carry on. I really don't get on here much 8>)

--- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@...> wrote:
>
> Hi John, yes I did see your earlier posting but thanks again for the
> reminder.
> Since my on-list chat with Ron earlier tonight I have trawled eBay
> and found what I think are the programmers you are referring to and
> have taken the plunge and ordered one from Shanghai !
> So now I am in at the deep end Ron, but if it pays off and I get the
> support they have promised I should have something which meets my
> needs for a while as it seems to be a very versatile unit, but I may
> need to pick someone's brains later, so hope you John are able to
> provide some of the answers to my questions by then Hi Hi.
> Thanks and 73 de Charles G3OTH
>
>
> --- In mkars80@..., "John" <john.g4gcl@> wrote:
> >
> >
> >
> > Hi,
> >
> > I'm not sure if it's of any interest but I posted this message in
> early
> > January about a very nice little programmer which covers an
amazing
> > amount of different devices:-
> >
> > Hi Tony,
> > I'm not sure if this helps but I bought a programmer from a guy in
> > China via Ebay last November and the service was good as was the

> > unit. I just checked and they are still available at the same
price.
> >
> > It's connected via a USB port so there is no need for any external
> > supply although one can be connected if the port cannot supply
more
> > than 200Ma. It has a 40 pin ZIF socket so it can handle quite a
lot
> of
> > devices.The software is quite reasonable too.
> >
> > If you would like any other info please let me know.
> >
> > It works out at about 38 Euro.
> > 73,
> >
> > John.
> >
>

632. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 04:23:54 UTC
From: Liz & Tony Buckland
Topic: 596 Message: 632

Hello Ron,

I stand corrected, I have removed the Hz digit and reinstated the "M"
in front of Hz and it looks really good. Plus it makes it slightly
easier to tune. It's good fun this programming.

I will have a look at Steve's challenge now :-).

73 Tony ZL3HAM

>Well, not too hard for you I'm sure, Steve, but my PIC experience is
>only one day old. I have little or no understanding of what the code
>in the .asm file really does, although your annotations are a big
>help. I think I found the lines where the last digit can be
>suppressed (Buffer_6 call send_char ; 1Hz)?
>But since I do not know what I am doing, it is really a matter of
>trail and error. And time...
>
>Thanks and 73
>
>Ron pa0rcl
>
>----- Original Message -----
>From: Steve Drury
>To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
>Sent: Tuesday, February 03, 2009 8:18 PM
>Subject: Re: [mkars80] Re: PIC-programming - HELP!
>
>Glad you are getting the hang of it Ron. How about changing other features
>of the firmware more to your liking - perhaps start by removing the last
>digit and replacing it with an "M", this shouldn't be too hard.
>
>Steve G6ALU
>
>----- Original Message -----
>From: "pa0rcl" <<mailto:pa0rcl%40planet.nl>pa0rcl@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Tuesday, February 03, 2009 6:27 PM
>Subject: Re: [mkars80] Re: PIC-programming - HELP!
>
> > Even non-native English readers like me were able to understand what
> > you meant, Charles, no problem.
> >
> > The Velleman K8084 PIC programmer uses its own power source for the
> > burning voltages indeed. I must say it works fine, perhaps i offers
> > too much for what I intend to do with it, but as a kit it is not too

> > expensive and can be built quickly.
> >
> > Good luck,
> >
> > 73 Ron de pa0rcl
> >
> >
> >
> > Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
> >
> >> --- In
> <mailto:mkars80%40yahoogroups.co.uk>mkars80@...,
> "g3oth" <g3oth@...> wrote:
> >> >
> >> anyone out there no the likely reason ?
> >> >
> >> Sorry to English native readers for "no" read "know"
> >> I should "know" better at my age Hi Hi
> >> Charles G3OTH
> >>
> >>
> >>
> > >
> > >
> > >
> > > 73 Ron pa0rcl
> > >
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> > > [Non-text portions of this message have been removed]
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> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
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> >
>--
>
>No virus found in this incoming message.
>Checked by AVG - <http://www.avg.com>http://www.avg.com
>Version: 8.0.233 / Virus Database: 270.10.16/1930 - Release Date: 2/2/2009
>7:51 AM
>

>[Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

633. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 15:34:26 UTC
From: pa0rcl
Topic: 596 Message: 633

Hello Tony,

After a day's experience without the Hz digit and with "MHz" I'm
inclined to adopt this mod for good.
Tuning is somewhat easier, one only sacrifices 5Hz accuracy on the
average and in my opinion the display now simply looks better.
If you have an idea where to start with Steve's idea about a flashing
display I would be gratefull if you would share it.

Thanks and 73 Ron pa0rcl

Op 4-feb-2009, om 5:23 heeft Liz & Tony Buckland het volgende
geschreven:

> Hello Ron,
>
> I stand corrected, I have removed the Hz digit and reinstated the "M"
> in front of Hz and it looks really good. Plus it makes it slightly
> easier to tune. It's good fun this programming.
>
> I will have a look at Steve's challenge now :-).
>
> 73 Tony ZL3HAM
>
> >Well, not too hard for you I'm sure, Steve, but my PIC experience is
> >only one day old. I have little or no understanding of what the code
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> >help. I think I found the lines where the last digit can be
> >suppressed (Buffer_6 call send_char ; 1Hz)?
> >But since I do not know what I am doing, it is really a matter of
> >trail and error. And time...
> >
> >Thanks and 73
> >
> >Ron pa0rcl
> >
> >----- Original Message -----
> >From: Steve Drury
> >To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
> >Sent: Tuesday, February 03, 2009 8:18 PM
> >Subject: Re: [mkars80] Re: PIC-programming - HELP!
> >
> >Glad you are getting the hang of it Ron. How about changing other
> features
> >of the firmware more to your liking - perhaps start by removing
> the last

> >digit and replacing it with an "M", this shouldn't be too hard.
> >
> >Steve G6ALU
> >
> >----- Original Message -----
> >From: "pa0rcl" <<mailto:pa0rcl%40planet.nl>pa0rcl@...>
> >To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> >Sent: Tuesday, February 03, 2009 6:27 PM
> >Subject: Re: [mkars80] Re: PIC-programming - HELP!
> >
> > > Even non-native English readers like me were able to understand
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> > > you meant, Charles, no problem.
> > >
> > > The Velleman K8084 PIC programmer uses its own power source for
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> > > burning voltages indeed. I must say it works fine, perhaps i
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> > > too much for what I intend to do with it, but as a kit it is
> not too
> > > expensive and can be built quickly.
> > >
> > > Good luck,
> > >
> > > 73 Ron de pa0rcl
> > >
> > >
> > >
> > > Op 3-feb-2009, om 18:26 heeft g3oth het volgende geschreven:
> > >
> > >> --- In
> > <mailto:mkars80%40yahoogroups.co.uk>mkars80@...,
> > "g3oth" <g3oth@...> wrote:
> > >> >
> > >> anyone out there no the likely reason ?
> > >> >
> > >> Sorry to English native readers for "no" read "know"
> > >> I should "know" better at my age Hi Hi
> > >> Charles G3OTH
> > >>
> > >>
> > >>
> > >
> > >
> > >
> > > 73 Ron pa0rcl
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> > >
> > > [Non-text portions of this message have been removed]
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> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> >--
> >
> >No virus found in this incoming message.
> >Checked by AVG - <http://www.avg.com>http://www.avg.com
> >Version: 8.0.233 / Virus Database: 270.10.16/1930 - Release Date:
> 2/2/2009
> >7:51 AM
> >
> >[Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
>
>
>

73 Ron pa0rcl

[Non-text portions of this message have been removed]

634. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 15:42:12 UTC
From: pa0rcl
Topic: 596 Message: 634

OK Charles, I found both of them. Are you sure that our PIC is
supported and what software drives it?

73

Ron pa0rcl

Op 4-feb-2009, om 1:05 heeft g3oth het volgende geschreven:

> Ron there are at least 2 sellers on there, both are very similar
> products if not the same. The one in China is at:
> http://cgi.ebay.co.uk/ws/eBayISAPI.dll?
> ViewItem&ssPageName=STRK:MEWAX:IT&item=280308152649
> But maybe on reflection I should have ordered from Hong Kong as it is
> quite a bit cheaper at:
> http://cgi.ebay.co.uk/ws/eBayISAPI.dll?
> ViewItem&ssPageName=STRK:MEWAX:IT&item=230323309238
> 73 de Charles G3OTH
>
> --- In mkars80@..., pa0rcl <pa0rcl@...> wrote:
> >
> > Could you give me the link to this item on eBay, Charles, perhaps
> > I'll buy one, too.
> > Thnaks,
> >
> > Ron pa0rcl
> >
> >
> >
> > Op 3-feb-2009, om 23:37 heeft g3oth het volgende geschreven:
> >
> > > Hi John, yes I did see your earlier posting but thanks again for
> the
> > > reminder.
> > > Since my on-list chat with Ron earlier tonight I have trawled eBay
> > > and found what I think are the programmers you are referring to
> and
> > > have taken the plunge and ordered one from Shanghai !
> > > So now I am in at the deep end Ron, but if it pays off and I get
> the
> > > support they have promised I should have something which meets my
> > > needs for a while as it seems to be a very versatile unit, but I
> may
> > > need to pick someone's brains later, so hope you John are able to
> > > provide some of the answers to my questions by then Hi Hi.
> > > Thanks and 73 de Charles G3OTH

> > >
> > > --- In mkars80@..., "John" <john.g4gcl@> wrote:
> > > >
> > > >
> > > >
> > > > Hi,
> > > >
> > > > I'm not sure if it's of any interest but I posted this message
> in
> > > early
> > > > January about a very nice little programmer which covers an
> amazing
> > > > amount of different devices:-
> > > >
> > > > Hi Tony,
> > > > I'm not sure if this helps but I bought a programmer from a guy
> in
> > > > China via Ebay last November and the service was good as was the
> > > > unit. I just checked and they are still available at the same
> price.
> > > >
> > > > It's connected via a USB port so there is no need for any
> external
> > > > supply although one can be connected if the port cannot supply
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> > > > than 200Ma. It has a 40 pin ZIF socket so it can handle quite a
> lot
> > > of
> > > > devices.The software is quite reasonable too.
> > > >
> > > > If you would like any other info please let me know.
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> > > > It works out at about 38 Euro.
> > > > 73,
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> > > > John.
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> > >
> > > 73 Ron pa0rcl
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> > [Non-text portions of this message have been removed]
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>
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>

73 Ron pa0rcl

[Non-text portions of this message have been removed]

635. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 15:58:13 UTC
From: g3oth
Topic: 596 Message: 635

Ron, the description for both includes our PIC and also 2 others
which I use. I cant comment on the software however as the links come
with the product, but I am confident they will be ok, John would know
more about this I guess as he already uses one. I am sure looking at
the pics that the HK unit is exactly the same as the China unit, only
the China deal says it includes a 9 pin to 9 pin cable and an adapter
for 6 pin PICs, even so the HK has to be the best deal I reckon in
hindsight.
73 de Charles G3OTH

--- In mkars80@..., pa0rcl <pa0rcl@...> wrote:
>
> OK Charles, I found both of them. Are you sure that our PIC is
> supported and what software drives it?
>
> 73
>
> Ron pa0rcl
>
>
> Op 4-feb-2009, om 1:05 heeft g3oth het volgende geschreven:
>
> > Ron there are at least 2 sellers on there, both are very similar
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> > But maybe on reflection I should have ordered from Hong Kong as
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> > http://cgi.ebay.co.uk/ws/eBayISAPI.dll?
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> > 73 de Charles G3OTH
> >
> > --- In mkars80@yahoogroups.co.uk, pa0rcl <pa0rcl@> wrote:
> > >
> > > Could you give me the link to this item on eBay, Charles,
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> > > I'll buy one, too.
> > > Thnaks,
> > >
> > > Ron pa0rcl
> > >
> > >
> > >
> > > Op 3-feb-2009, om 23:37 heeft g3oth het volgende geschreven:

> > >
> > > > Hi John, yes I did see your earlier posting but thanks again
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> > > > Since my on-list chat with Ron earlier tonight I have trawled
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> > > > provide some of the answers to my questions by then Hi Hi.
> > > > Thanks and 73 de Charles G3OTH
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> > > > --- In mkars80@yahoogroups.co.uk, "John" <john.g4gcl@> wrote:
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> > > > > If you would like any other info please let me know.
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> > > > > It works out at about 38 Euro.
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> > > 73 Ron pa0rcl
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> 73 Ron pa0rcl
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> [Non-text portions of this message have been removed]
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636. Re: [mkars80] Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 16:22:38 UTC
From: pa0rcl
Topic: 596 Message: 636

FB Charles, perhaps I overlooked the description. I am probably going
for the HK one, it costs next to nothing.

Thanks and 73,

Ron pa0rcl

Op 4-feb-2009, om 16:58 heeft g3oth het volgende geschreven:

> Ron, the description for both includes our PIC and also 2 others
> which I use. I cant comment on the software however as the links come
> with the product, but I am confident they will be ok, John would know
> more about this I guess as he already uses one. I am sure looking at
> the pics that the HK unit is exactly the same as the China unit, only
> the China deal says it includes a 9 pin to 9 pin cable and an adapter
> for 6 pin PICs, even so the HK has to be the best deal I reckon in
> hindsight.
> 73 de Charles G3OTH
>
> --- In mkars80@..., pa0rcl <pa0rcl@...> wrote:
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> > OK Charles, I found both of them. Are you sure that our PIC is
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> > Op 4-feb-2009, om 1:05 heeft g3oth het volgende geschreven:
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> > > --- In mkars80@..., pa0rcl <pa0rcl@> wrote:
> > > >
> > > > Could you give me the link to this item on eBay, Charles,
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> > > > I'll buy one, too.
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> > > > > --- In mkars80@..., "John" <john.g4gcl@> wrote:
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> > > > > > China via Ebay last November and the service was good as
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> > > > > > unit. I just checked and they are still available at the
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> > > > > > than 200Ma. It has a 40 pin ZIF socket so it can handle
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> > > > > > It works out at about 38 Euro.
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> > > > 73 Ron pa0rcl
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> > 73 Ron pa0rcl
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73 Ron pa0rcl

[Non-text portions of this message have been removed]

637. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 20:04:17 UTC
From: John
Topic: 596 Message: 637

Hi,

you are an impetuous bunch! [:)]

The link to the one I bought is
http://cgi.ebay.co.uk/Mini-USB-PIC-Microcontroller-Programmer-for-Microc\
hip_W0QQitemZ290293803401QQcmdZViewItemQQptZBI_Electronic_Components?has\
h=item290293803401&_trksid=p3286.c0.m14&_trkparms=72%3A1688%7C66%3A2%7C6\
5%3A12%7C39%3A1%7C240%3A1318
<http://cgi.ebay.co.uk/Mini-USB-PIC-Microcontroller-Programmer-for-Micro\
chip_W0QQitemZ290293803401QQcmdZViewItemQQptZBI_Electronic_Components?ha\
sh=item290293803401&_trksid=p3286.c0.m14&_trkparms=72%3A1688%7C66%3A2%7C\
65%3A12%7C39%3A1%7C240%3A1318>

I didn't need a serial port and the number of devices supported plus
the quite nice software led me to buy that one.

The price in USD was the same but at the exchange rate then it cost me
£34.91

73,

John.

--- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@...> wrote:
>
> Ron, the description for both includes our PIC and also 2 others
> which I use. I cant comment on the software however as the links come
> with the product, but I am confident they will be ok, John would know
> more about this I guess as he already uses one. I am sure looking at
> the pics that the HK unit is exactly the same as the China unit, only
> the China deal says it includes a 9 pin to 9 pin cable and an adapter
> for 6 pin PICs, even so the HK has to be the best deal I reckon in
> hindsight.
> 73 de Charles G3OTH
>
> --- In mkars80@yahoogroups.co.uk, pa0rcl pa0rcl@ wrote:
> >
> > OK Charles, I found both of them. Are you sure that our PIC is
> > supported and what software drives it?
> >
> > 73
> >
> > Ron pa0rcl
> >
> >
>

[Non-text portions of this message have been removed]

638. Re: PIC-programming - HELP!

Yahoo group: mkars80
Date: 2009-02-04 20:59:29 UTC
From: g3oth
Topic: 596 Message: 638

Hi John
Thanks for the info.....impetuous.....yes at least in my case and I plead guilty as charged.....however Ron has not bought one yet so he reserves his defence.
In mitigation your site did not come up when I looked last night but it may have been a better bet specification wise had I seen it.
Superficially all three look very similar to me unless you can spot otherwise, so let us both know if you can detect any serious problems or drawbacks, too late for me but it could be of benefit to Ron and others.
Thanks es 73 de Charles G3OTH

-- In mkars80@..., "John" <john.g4gcl@...> wrote:
>
>
> Hi,
>
> you are an impetuous bunch! [:)]
>
> The link to the one I bought is
> http://cgi.ebay.co.uk/Mini-USB-PIC-Microcontroller-Programmer-for-Microc\
>
hip_W0QQitemZ290293803401QQcmdZViewItemQQptZBI_Electronic_Components?has\
> h=item290293803401&_trksid=p3286.c0.m14&_trkparms=72%3A1688%7C66%3A2%7C6\
> 5%3A12%7C39%3A1%7C240%3A1318
> <http://cgi.ebay.co.uk/Mini-USB-PIC-Microcontroller-Programmer-for-Micro\
>
chip_W0QQitemZ290293803401QQcmdZViewItemQQptZBI_Electronic_Components?ha\
> sh=item290293803401&_trksid=p3286.c0.m14&_trkparms=72%3A1688%7C66%3A2%7C\
> 65%3A12%7C39%3A1%7C240%3A1318>
>
> I didn't need a serial port and the number of devices supported plus
> the quite nice software led me to buy that one.
>
> The price in USD was the same but at the exchange rate then it cost me
> £34.91
>

> 73,
>
> John.
>
> --- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@> wrote:
> >
> > Ron, the description for both includes our PIC and also 2 others
> > which I use. I cant comment on the software however as the links
come
> > with the product, but I am confident they will be ok, John would
know
> > more about this I guess as he already uses one. I am sure looking
at
> > the pics that the HK unit is exactly the same as the China unit,
only
> > the China deal says it includes a 9 pin to 9 pin cable and an
adapter
> > for 6 pin PICs, even so the HK has to be the best deal I reckon in
> > hindsight.
> > 73 de Charles G3OTH
> >
> > --- In mkars80@..., pa0rcl pa0rcl@ wrote:
> > >
> > > OK Charles, I found both of them. Are you sure that our PIC is
> > > supported and what software drives it?
> > >
> > > 73
> > >
> > > Ron pa0rcl
> > >
> > >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

639. MKARS80 presentation Norwich ARC

Yahoo group: mkars80
Date: 2009-02-05 11:17:49 UTC
From: John
Topic: 639 Message: 639

Yesterday I accompanied Steve G6ALU to the Norwich Amateur Radio Club to assist with one of his presentations on the MKARS80. We enjoyed the meeting and enthusiasm of NARC members.

I have uploaded a few photos of the meeting in the photo section (pending Steve's approval).

John (M0TIF)

640. RE: [mkars80] MKARS80 presentation Norwich ARC

Yahoo group: mkars80
Date: 2009-02-05 11:35:22 UTC
From: David White
Topic: 639 Message: 640

gosh that was interesting john, i wonder how you travelled in this bad weather, car or train ? is it a large club there i have never actually been to Norwich. you must relate it all on monday to us de G3ZPA

NNNN

To: mkars80@...: John.Housego1@...: Thu, 5 Feb 2009 11:17:49 +0000Subject: [mkars80] MKARS80 presentation Norwich ARC

Yesterday I accompanied Steve G6ALU to the Norwich Amateur Radio Clubto assist with one of his presentations on the MKARS80. We enjoyed themeeting and enthusiasm of NARC members. I have uploaded a few photos of the meeting in the photo section(pending Steve's approval).John (M0TIF)

_____
Twice the fun?Share photos while you chat with Windows Live Messenger. Learn more. http://www.microsoft.com/uk/windows/windowslive/products/messenger.aspx

[Non-text portions of this message have been removed]

641. Good Review!

Yahoo group: mkars80
Date: 2009-02-06 18:50:46 UTC
From: John
Topic: 641 Message: 641

A good review in PW as expected Steve [:)]

Stand by for all the orders!

73,

John.

[Non-text portions of this message have been removed]

642. Re: [mkars80] Good Review!

Yahoo group: mkars80
Date: 2009-02-06 21:48:37 UTC
From: pa0rcl
Topic: 641 Message: 642

John, is this review accessible somewhere on-line?

Thanks and 73

Ron de pa0rcl

----- Original Message -----
From: John
To: mkars80@...
Sent: Friday, February 06, 2009 7:50 PM
Subject: [mkars80] Good Review!

A good review in PW as expected Steve [:)]

Stand by for all the orders!

73,

John.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

643. Re: [mkars80] Good Review!

Yahoo group: mkars80
Date: 2009-02-06 22:43:40 UTC
From: Liz & Tony Buckland
Topic: 641 Message: 643

If not can someone scan it and put it in the files section please.

Thanks and 73 Tony ZL3HAM

>John, is this review accessible somewhere on-line?
>
>Thanks and 73
>
>Ron de pa0rcl
>
>----- Original Message -----
>From: John
>To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
>Sent: Friday, February 06, 2009 7:50 PM
>Subject: [mkars80] Good Review!
>
>A good review in PW as expected Steve [:)]
>
>Stand by for all the orders!
>
>73,
>
>John.
>
>[Non-text portions of this message have been removed]
>
>[Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

645. Re: [mkars80] Re: PIC-programming

Yahoo group: mkars80
Date: 2009-02-07 23:37:20 UTC
From: Liz & Tony Buckland
Topic: 644 Message: 645

Hello Ron,

OK on the experimenting, always worth trying, and agree on your comments. I'll keep mine with just the 1Hz digit suppressed in readiness for the CW adapter.

Having the 10:1 reduction drive on mine the tuning appears to be pretty good in conjunction with the fine control but take on board your mod using a ten turn pot and three switched ranges, an interesting mod.

I would happily have an S-meter in place of the Bat indicator but not sure how that could be done without a major mod or whether in fact it could be achieved with firmware changes somehow?

I have changed my "+" for an "=" for the centre tuning indicator and I like it, what a fussy lot we are :-).

I haven't had too much spare time recently to play with the firmware programming challenges, I think this will take a bit of time but will get onto it soon.

Have fun experimenting,
73 Tony ZL3HAM

PIC-programming is fun, indeed. I went one step further -just as an experiment- and suppressed the 10Hz digit also.
>Quite frankly I do not miss that digit either. In SSB voice
>communications, a 50 Hz average deviation from the other party's
>frequency is hardly or not noticed. I used to have a Drake TR7 that
>also had only one digit after the MHz-point (3.755.0) and my Kenwood
>TS-440 gives the option of one or two trailing digits.Most hams set
>their transceiver to values rounded to 100 Hz if not 1000 in SSB,
>even if its display is accurate to the last Hz.
>
>Tuning with the MKARS80 now is even more simple, very quick and a
>real pleasure. Since I split the band op in three switchable
>portions of 100 Khz and tune each of them individually with a
>10-turn potmeter, I no longer need the fine tuning. All tuning is
>now done with the main tuning knob. It now has a virtual reduction
>of 1:30 over a single turn pot and of approx. 1:50 over the original varicon.
>
>Talking about challenges, I keep asking myself if the battery
>voltage indicator -which may not be of all that much use for those
>who operate their set from the mains- could be replaced by an
>S-meter. I will have to dive into this.
>
>Enjoy the hobby and 73

>
>Ron pa0rcl

646. Review

Yahoo group: mkars80
Date: 2009-02-09 19:41:46 UTC
From: John
Topic: 646 Message: 646

Hi Steve & Friends,

Just a comment about that review now I've looked a little closer.

The "Pros" were absolutely spot on but the only "Con" Care needed when handlimg small components!

So NO MORE small parts Steve, can I have a nice big polished wooden case too to match my Radiogram? [:)]

73,

John.

[Non-text portions of this message have been removed]

647. Re: [mkars80] Review

Yahoo group: mkars80
Date: 2009-02-09 20:09:01 UTC
From: Steve Drury
Topic: 646 Message: 647

We laughed at the "Con", unfortunately modern parts are small!

Steve G6ALU

----- Original Message -----
From: "John" <john.g4gcl@...>
To: <mkars80@...>
Sent: Monday, February 09, 2009 7:41 PM
Subject: [mkars80] Review

>
> Hi Steve & Friends,
>
> Just a comment about that review now I've looked a little closer.
>
> The "Pros" were absolutely spot on but the only "Con" Care needed when
> handlimg small components!
>
> So NO MORE small parts Steve, can I have a nice big polished wooden case
> too to match my Radiogram? [:)]
>
> 73,
>
> John.
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.233 / Virus Database: 270.10.19/1941 - Release Date: 02/02/09
07:51:00

649. Re: Returned email G3OTH

Yahoo group: mkars80
Date: 2009-02-15 16:32:16 UTC
From: royg3zlf
Topic: 648 Message: 649

--- In mkars80@..., "Ron" <pa0rcl@...> wrote:
>
> Hello Charles, the reason for this post is that I keep getting my
mails
> to you back undeliverable after a few hours, I don't know for what
> reason. Hope you read this.
> Sorry for having bothered you, all other group members!
>
> 73 Ron pa0rcl
>
This has come to me in error I assume?

650. Re: [mkars80] Re: Returned email G3OTH

Yahoo group: mkars80
Date: 2009-02-15 16:37:30 UTC
From: Steve Drury
Topic: 648 Message: 650

Not exactly, Ron is trying to get hold of Charles....

In future please send requests of this type to me directly as I have access
to everyone's Yahoo registered email address.

Sorry for the spam.

Steve G6ALU

----- Original Message -----
From: "royg3zlf" <roy.nelson@...>
To: <mkars80@...>
Sent: Sunday, February 15, 2009 4:32 PM
Subject: [mkars80] Re: Returned email G3OTH

> --- In mkars80@..., "Ron" <pa0rcl@...> wrote:
>>
>> Hello Charles, the reason for this post is that I keep getting my
> mails
>> to you back undeliverable after a few hours, I don't know for what
>> reason. Hope you read this.
>> Sorry for having bothered you, all other group members!
>>
>> 73 Ron pa0rcl
>>
> This has come to me in error I assume?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

652. Melting point of Varnish ?

Yahoo group: mkars80
Date: 2009-02-16 10:05:36 UTC
From: g8xlh
Topic: 652 Message: 652

Hi All,

I have just completed the MKARS80 kit and I am pleased to report that all is working OK.

I now have to get it boxed up, which I am not looking forward to as metal bashing is not something I enjoy or very good at.

However like the review in PW I also had a bad connection on one of the coils which I think was caused by the insulation not melting on the enamled copper wire.

My normal Weller iron with a "7" bit had difficulty, and in the end I used "Maplin" iron with the temerature set to Max.

I wonder if you know what the correct temperature should be to melt the Varnish, and it might be worth adding a note to the manual. On the thicker wires I could scrape the insulation away, but not for the thiner stuff.

Well done to the club for a good project.

Regards

Alan G8XLH

653. Re: display not show what it should

Yahoo group: mkars80
Date: 2009-02-18 20:40:30 UTC
From: m1dgq
Topic: 576 Message: 653

--- In mkars80@..., "m1dgq" <M1DGQ@...> wrote:
>
> hi guys started with this problem before xmas but only just had time
to
> get back to looking at the problem vfo test point does not seem to
show
> any intelegent reading but 10 mhz test point is working fine
measured
> various transistors etc Q8 Q9 Q11 and Q12 read older posts about the
> results still cannot see what is wrong
>
> any more ideas
>
> cheers peter m1dgq
>

SOLVED THE PROBLEM WITH SOME HELP FROM ANOTHER LOCAL WHO HAS ALSO CONSTRUCTED THIS PROJECT FOUND I HAD MADE A NEWBY ERROR AND PUT A TRANSISTOR IN BACKWARDS WORKING FINE NOW

654. Re: [mkars80] Re: display not show what it should

Yahoo group: mkars80
Date: 2009-02-18 21:16:48 UTC
From: Steve Drury
Topic: 576 Message: 654

Peter,

Glad to hear its working OK now, I ran out of ideas as all the voltages read correct. The last option was to return it to me but now no need.

Enjoy using it,
Steve G6ALU

----- Original Message -----
From: "m1dgq" <M1DGQ@...>
To: <mkars80@...>
Sent: Wednesday, February 18, 2009 8:40 PM
Subject: [mkars80] Re: display not show what it should

> --- In mkars80@..., "m1dgq" <M1DGQ@...> wrote:
>>
>> hi guys started with this problem before xmas but only just had time
> to
>> get back to looking at the problem vfo test point does not seem to
> show
>> any intelegent reading but 10 mhz test point is working fine
> measured
>> various transistors etc Q8 Q9 Q11 and Q12 read older posts about the
>> results still cannot see what is wrong
>>
>> any more ideas
>>
>> cheers peter m1dgq
>>
>
>
> SOLVED THE PROBLEM WITH SOME HELP FROM ANOTHER LOCAL WHO HAS ALSO
> CONSTRUCTED THIS PROJECT FOUND I HAD MADE A NEWBY ERROR AND PUT A
> TRANSISTOR IN BACKWARDS WORKING FINE NOW
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.10.25/1958 - Release Date: 02/18/09
08:57:00

655. Re: display not show what it should

Yahoo group: mkars80
Date: 2009-02-18 21:54:38 UTC
From: m1dgq
Topic: 576 Message: 655

yep finaly got it going well the next thing is to look at the tuning mod for the vfo and the varactor tuning mode .wondered if any one has written this up using some pics to help etc any web pages to look at with this in mind

656. US Frequencies

Yahoo group: mkars80
Date: 2009-02-20 00:24:29 UTC
From: pulsarair
Topic: 656 Message: 656

I just ordered a MKARS80 but do not have it as yet. I live in the US. I'd like to adjust the VFO for US phone frequencies (3.7 to 4.0 Mhz). If I do this by either adjusting the variable cap or take a turn or so off the VFO coil to shift the VFO upwards, will I have a problem with the PIC telling me I am out of band? If this can be turned off, no problem as I could care less about being warned I am "out of band".

Also, does the kit now come with NPO caps in the VFO?

Lee, w0vt
Houston, Texas, USA

657. Re: [mkars80] US Frequencies

Yahoo group: mkars80
Date: 2009-02-20 00:41:22 UTC
From: LEE BAHR
Topic: 656 Message: 657

Looking at this, it looks like I have to lower the VFO to get higher in the band, sorry.

Lee, w0vt

----- Original Message -----
From: pulsarair
To: mkars80@...
Sent: Thursday, February 19, 2009 6:24 PM
Subject: [mkars80] US Frequencies

I just ordered a MKARS80 but do not have it as yet. I live in the US.
I'd like to adjust the VFO for US phone frequencies (3.7 to 4.0 Mhz).
If I do this by either adjusting the variable cap or take a turn or so
off the VFO coil to shift the VFO upwards, will I have a problem with
the PIC telling me I am out of band? If this can be turned off, no
problem as I could care less about being warned I am "out of band".

Also, does the kit now come with NPO caps in the VFO?

Lee, w0vt
Houston, Texas, USA

[Non-text portions of this message have been removed]

658. Re: [mkars80] US Frequencies

Yahoo group: mkars80
Date: 2009-02-20 06:56:32 UTC
From: Steve Drury
Topic: 656 Message: 658

Lee,

They will often cover the frequency range you need as designed but in case
its probably wise to add a turn to the VFO coil when you wind it.

The software doesn't indicate out of band so you are OK there!

Steve G6ALU

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
To: <mkars80@...>
Sent: Friday, February 20, 2009 12:41 AM
Subject: Re: [mkars80] US Frequencies

> Looking at this, it looks like I have to lower the VFO to get higher in
> the band, sorry.
>
> Lee, w0vt
>
> ----- Original Message -----
> From: pulsarair
> To: mkars80@...
> Sent: Thursday, February 19, 2009 6:24 PM
> Subject: [mkars80] US Frequencies
>
>
> I just ordered a MKARS80 but do not have it as yet. I live in the US.
> I'd like to adjust the VFO for US phone frequencies (3.7 to 4.0 Mhz).
> If I do this by either adjusting the variable cap or take a turn or so
> off the VFO coil to shift the VFO upwards, will I have a problem with
> the PIC telling me I am out of band? If this can be turned off, no
> problem as I could care less about being warned I am "out of band".
>
> Also, does the kit now come with NPO caps in the VFO?
>
> Lee, w0vt
> Houston, Texas, USA
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>

> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.1/1961 - Release Date: 02/19/09
18:45:00

659. Hi Steve and all...

Yahoo group: mkars80
Date: 2009-02-20 15:06:57 UTC
From: rfullagar
Topic: 659 Message: 659

Built the MKARS80, that arrive promptly, thanks Steve.

Made one stupid mistake and put Q22 the wrong way round, apart from that worked first time.

Only annoying thing I have now is that when I bolt Q1 to the case using the pad and bush it blows the fuse...I'm assuming it's a short somewhere with the case of Q1 and the ali mounting case.

Do ya think I can find it :)

Will keep trying...great kit.

Rob (m0rpf)

660. Blowing fuses : A suggestion.

Yahoo group: mkars80
Date: 2009-02-20 16:08:05 UTC
From: Tony Olewicz
Topic: 659 Message: 660

Bob,
Do a continuity check before connecting PSU - it saves fuses!
My experience - check the deburring on the transistor mounting hole carefully.
(Had to use magnifying glass) the burr might be piercing the isolating pad. Also that the nut-bolt is passing through the insulation sleeve washer correctly on the insulated mounting bits. I found that sleeve too short, so replaced it with a longer one out of the 'junk box'.

Using a hand power drill gave poor results - have picked up a drill stand since as an "Aldi weekly special offer". The difference in accuracy and professional results is amazing.

Only other problem with the kit was the heat strippable enamel.
Solution was to heat strip and 'tin' the leads away from the board to ensure that a good electrical connenction had been made.

Have fun.
Tony
G6XMO

--- On Fri, 20/2/09, rfullagar <rfullagar@...> wrote:

From: rfullagar <rfullagar@...>
Subject: [mkars80] Hi Steve and all...
To: mkars80@...
Date: Friday, 20 February, 2009, 3:06 PM

Built the MKARS80, that arrive promptly, thanks Steve.

Made one stupid mistake and put Q22 the wrong way round, apart from
that worked first time.

Only annoying thing I have now is that when I bolt Q1 to the case
using the pad and bush it blows the fuse...I'm assuming it's a short
somewhere with the case of Q1 and the ali mounting case.

Do ya think I can find it :)

Will keep trying...great kit.

Rob (m0rpf)

[Non-text portions of this message have been removed]

661. Re: [mkars80] Hi Steve and all...

Yahoo group: mkars80
Date: 2009-02-20 16:28:42 UTC
From: DAVID CLENCH
Topic: 659 Message: 661

Hi Bob

I had this problem too and the cause was as Tony described. I de burred the hole and refitted the sleeve etc and all was well.

73 Dave G0BVV

--- On Fri, 20/2/09, rfullagar <rfullagar@...> wrote:

From: rfullagar <rfullagar@...>
Subject: [mkars80] Hi Steve and all...
To: mkars80@...
Date: Friday, 20 February, 2009, 3:06 PM

Built the MKARS80, that arrive promptly, thanks Steve.

Made one stupid mistake and put Q22 the wrong way round, apart from
that worked first time.

Only annoying thing I have now is that when I bolt Q1 to the case
using the pad and bush it blows the fuse...I'm assuming it's a short
somewhere with the case of Q1 and the ali mounting case.

Do ya think I can find it :)

Will keep trying...great kit.

Rob (m0rpf)

[Non-text portions of this message have been removed]

662. Greetings all.

Yahoo group: mkars80
Date: 2009-02-20 16:46:20 UTC
From: Master Ice
Topic: 662 Message: 662

My MKARS80 kit arrived with lightning speed and is now burning a hole on my 'things to do' shelf whilst I am embroiled in a major house refurbish prior to getting married in a few months.

Hopefully I can sneak a few hours on it here and there (when the future missus isn't about) to start slyly assembling the beast.

Regarding the problem with melting the insulation on the copper wire, we used to use a small meths spirit burners in our workshops.
You'd hold the wire in the flame until the insulation bubbled and then quickly wipe it off with a bit of kitchen towel. Then just tin it normally. AND DON'T TRY USING A CANDLE - INSTANT SOOT DEPOSITS! :-)

All the best

Slim Haines G4IPZ

663. Re: [mkars80] US Frequencies

Yahoo group: mkars80
Date: 2009-02-20 17:16:05 UTC
From: LEE BAHR
Topic: 656 Message: 663

Thanks, Steve. Great news. I am looking forward to receiving my kit. A fellow ham lives around 1000 feet from me and besides using the MKARS80 for regular contacts, we plan to use them for an "intercom" between shacks.

Lee, w0vt

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Friday, February 20, 2009 12:56 AM
Subject: Re: [mkars80] US Frequencies

Lee,

They will often cover the frequency range you need as designed but in case
its probably wise to add a turn to the VFO coil when you wind it.

The software doesn't indicate out of band so you are OK there!

Steve G6ALU

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
To: <mkars80@...>
Sent: Friday, February 20, 2009 12:41 AM
Subject: Re: [mkars80] US Frequencies

> Looking at this, it looks like I have to lower the VFO to get higher in
> the band, sorry.
>
> Lee, w0vt
>
> ----- Original Message -----
> From: pulsarair
> To: mkars80@...
> Sent: Thursday, February 19, 2009 6:24 PM
> Subject: [mkars80] US Frequencies
>
>
> I just ordered a MKARS80 but do not have it as yet. I live in the US.
> I'd like to adjust the VFO for US phone frequencies (3.7 to 4.0 Mhz).
> If I do this by either adjusting the variable cap or take a turn or so
> off the VFO coil to shift the VFO upwards, will I have a problem with
> the PIC telling me I am out of band? If this can be turned off, no
> problem as I could care less about being warned I am "out of band".
>
> Also, does the kit now come with NPO caps in the VFO?

>
> Lee, w0vt
> Houston, Texas, USA
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.1/1961 - Release Date: 02/19/09
18:45:00

[Non-text portions of this message have been removed]

664. Re: Hi Steve and all...

Yahoo group: mkars80
Date: 2009-02-20 17:59:24 UTC
From: Steve drury
Topic: 659 Message: 664

I think this blowing fuse issue is the biggest construction issue at the moment.

Firstly I've checked the heatsink kit supplied; the sleeves I have here are correct, when fitted they pass through the transistor tab, through the insulating sheet and into a clearance hole in the case.

Things to watch:
1. Hole in the case should be a clearance fit for the sleeve
2. Make sure the hole is deburred properly; use a larger drill to slightly countersink it and then make sure there is no burr by running a file over the panel.
3. After the transistor is fitted measure between case and tab to make sure there isn't a short circuit.

If you have damaged the sleeve or insulator let me know and I will post you another.

Steve G6ALU

--- In mkars80@..., DAVID CLENCH <david.clench@...>
wrote:
>
> Hi Bob
> Â
> I had this problem too and the cause was as Tony described. I de
burred the hole and refitted the sleeve etc and all was well.
> Â
> 73 Dave G0BVV
>
> --- On Fri, 20/2/09, rfullagar <rfullagar@...> wrote:
>
> From: rfullagar <rfullagar@...>
> Subject: [mkars80] Hi Steve and all...
> To: mkars80@...
> Date: Friday, 20 February, 2009, 3:06 PM
>
>
>
>
>
>
>
>
> Built the MKARS80, that arrive promptly, thanks Steve.
>
> Made one stupid mistake and put Q22 the wrong way round, apart from

> that worked first time.
>
> Only annoying thing I have now is that when I bolt Q1 to the case
> using the pad and bush it blows the fuse...I'm assuming it's a
short
> somewhere with the case of Q1 and the ali mounting case.
>
> Do ya think I can find it :)
>
> Will keep trying...great kit.
>
> Rob (m0rpf)
>
>
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>
>
>
> [Non-text portions of this message have been removed]
>

665. Re: US Frequencies

Yahoo group: mkars80
Date: 2009-02-20 18:05:09 UTC
From: Steve drury
Topic: 656 Message: 665

I don't know about a thousand feet - in the evening and using a G5RV
we have found a 1000 miles isn't uncommon!

Steve G6ALU

--- In mkars80@yahoogroups.co.uk, "LEE BAHR" <pulsarxp@...> wrote:
>
> Thanks, Steve. Great news. I am looking forward to receiving my
kit. A fellow ham lives around 1000 feet from me and besides using
the MKARS80 for regular contacts, we plan to use them for
an "intercom" between shacks.
>
> Lee, w0vt
>
>
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@yahoogroups.co.uk
> Sent: Friday, February 20, 2009 12:56 AM
> Subject: Re: [mkars80] US Frequencies
>
>
> Lee,
>
> They will often cover the frequency range you need as designed
but in case
> its probably wise to add a turn to the VFO coil when you wind it.
>
> The software doesn't indicate out of band so you are OK there!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "LEE BAHR" <pulsarxp@...>
> To: <mkars80@...>
> Sent: Friday, February 20, 2009 12:41 AM
> Subject: Re: [mkars80] US Frequencies
>
> > Looking at this, it looks like I have to lower the VFO to get
higher in
> > the band, sorry.
> >
> > Lee, w0vt

> >
> > ----- Original Message -----
> > From: pulsarair
> > To: mkars80@...
> > Sent: Thursday, February 19, 2009 6:24 PM
> > Subject: [mkars80] US Frequencies
> >
> >
> > I just ordered a MKARS80 but do not have it as yet. I live in
the US.
> > I'd like to adjust the VFO for US phone frequencies (3.7 to
4.0 Mhz).
> > If I do this by either adjusting the variable cap or take a
turn or so
> > off the VFO coil to shift the VFO upwards, will I have a
problem with
> > the PIC telling me I am out of band? If this can be turned
off, no
> > problem as I could care less about being warned I am "out of
band".
> >
> > Also, does the kit now come with NPO caps in the VFO?
> >
> > Lee, w0vt
> > Houston, Texas, USA
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> --
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.1/1961 - Release Date:
02/19/09
> 18:45:00
>
>
>

>
> [Non-text portions of this message have been removed]
>

666. Re: [mkars80] Re: Blowing Fuse

Yahoo group: mkars80
Date: 2009-02-20 18:12:33 UTC
From: LEE BAHR
Topic: 659 Message: 666

If this turns out to be a building problem for some causing a short, maybe a nylon bolt and nut on the transistor would be the answer.

Lee, w0vt

[Non-text portions of this message have been removed]

667. Re: [mkars80] Re: US Frequencies

Yahoo group: mkars80
Date: 2009-02-20 18:18:44 UTC
From: LEE BAHR
Topic: 656 Message: 667

Well then Steve, I should be able to hear WA5VGO 1000 foot away + or - .05%! (I hope he has QSL cards)!

Lee, w0vt

I don't know about a thousand feet - in the evening and using a G5RV
we have found a 1000 miles isn't uncommon!

Steve G6ALU

[Non-text portions of this message have been removed]

668. VFO MODIFIACTION AND FINE TUNE ideas on volume control

Yahoo group: mkars80
Date: 2009-02-20 18:40:15 UTC
From: m1dgq
Topic: 668 Message: 668

hi guys not being an expert on electronics but if you do the mod for the vfo using the varicap does this not make redundent the fine tune pot .secoundly has any one thought of putting volume control on this radio. not having fully cased up mine yet im tryin to do all the mods first any ideas changes etc .

by the way if you use a 50K ohm linear pot you negate the need for the switch as discribed in the mod file on this forum some tell me if im wrong

669. vfo

Yahoo group: mkars80
Date: 2009-02-20 19:37:26 UTC
From: fwoodhall
Topic: 669 Message: 669

Hi Steve finished the kit worked 1st go but vfo frequency is 4.282 - 4.594 what have i done wrong? regards Frank G0mzy

670. Re: vfo

Yahoo group: mkars80
Date: 2009-02-20 20:05:23 UTC
From: John
Topic: 669 Message: 670

I don't know if it's the same problem but I noticed that if C38 is adjusted to give 3.45 as I approach that frequency it suddenly jumps to 5 MHz! Settling for say 3.46 or 3.47 then it seems stable. Perhaps a small adjustment of C38 will sort out your problem? The other thing I found was that the starting adjustment should be done after making sure that the trimmer on the polyvaricon is totally out of mesh otherwise strange things seem to happen.

I'm no expert but that's what I have noticed.

73,

John.
--- In mkars80@..., "fwoodhall" <fwoodhall@...> wrote:
>
> Hi Steve finished the kit worked 1st go but vfo frequency is 4.282 -
> 4.594 what have i done wrong? regards Frank G0mzy
>

671. Re: vfo

Yahoo group: mkars80
Date: 2009-02-20 20:07:06 UTC
From: Steve drury
Topic: 669 Message: 671

Hi Frank,

Have you followed the alignment instructions? Does adjusting the orange trimmer C38 make any difference?

If so have you wound L5 correctly, if yes to all the previous then it sounds like you have a capacitor in the wrong place within the VFO section.

Come back if its still not working!

Steve G6ALU

--- In mkars80@..., "fwoodhall" <fwoodhall@...> wrote:
>
> Hi Steve finished the kit worked 1st go but vfo frequency is 4.282 -
> 4.594 what have i done wrong? regards Frank G0mzy
>

672. Email problems

Yahoo group: mkars80
Date: 2009-02-20 20:09:28 UTC
From: Steve drury
Topic: 672 Message: 672

It looks as though my ISP (Tiscali) has lost most of todays emails, if any one has emailed me today (to g6alu@...) then please send another!

Steve G6ALU

673. Re: [mkars80] Email problems

Yahoo group: mkars80
Date: 2009-02-20 20:19:06 UTC
From: pa0rcl
Topic: 672 Message: 673

We all get our share of email problems, it seems , Steve, hi.

73 Ron pa0rcl

----- Original Message -----
From: Steve drury
To: mkars80@...
Sent: Friday, February 20, 2009 9:09 PM
Subject: [mkars80] Email problems

It looks as though my ISP (Tiscali) has lost most of todays emails, if
any one has emailed me today (to g6alu@...) then please send
another!

Steve G6ALU

[Non-text portions of this message have been removed]

674. Re: Email problems

Yahoo group: mkars80
Date: 2009-02-20 20:30:49 UTC
From: John
Topic: 672 Message: 674

Hi Ron,

Did you get the mail I've been sending you over the last week or so? I
never seem to get a reply direct so I just wondered? [:)]

73,

John.
--- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> We all get our share of email problems, it seems , Steve, hi.
>
> 73 Ron pa0rcl
>
>
> ----- Original Message -----
> From: Steve drury
> To: mkars80@...
> Sent: Friday, February 20, 2009 9:09 PM
> Subject: [mkars80] Email problems
>
>
> It looks as though my ISP (Tiscali) has lost most of todays emails, if
> any one has emailed me today (to g6alu@...) then please send
> another!
>
> Steve G6ALU
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

675. Re: vfo

Yahoo group: mkars80
Date: 2009-02-20 20:59:14 UTC
From: g3oth
Topic: 669 Message: 675

John, I experienced almost exactly the same effect as you when I built and aligned my MKARS before Christmas. Even your quoted frequencies if I recall were about the same where this jump happened for me. At the time I thought it might be that C38 was suspect in some way or that the PIC program might have a glitch somewhere around that frequency or thereabouts. As however I was able to limit my MKARS80 tuning range from 3458 up to 3845 by adjustment of the Varicon Trimmer it did not present a problem in reality, and my MKARS80 has performed reliably to date ever since. However as far as I am aware I believe it would still display this phenomena if I were to go back to the settings of the Varicon and C38 I had set at the time. Maybe others or Steve might like to comment on this if they have ever noticed this themselves and can offer a possible explanation.
BTW Steve, Ron behind the scenes has been customising your firmware with his Vellerman programmer and even I have managed to enter my Callsign into the 16F818 using the Chinese USB programmer I bought on eBay, it has been great fun but we both have a long way to go to catch up with you Hi Hi
73 de Charles G3OTH

--- In mkars80@..., "John" <john.g4gcl@...> wrote:
>
>
> I don't know if it's the same problem but I noticed that if C38 is
> adjusted to give 3.45 as I approach that frequency it suddenly
jumps to
> 5 MHz! Settling for say 3.46 or 3.47 then it seems stable. Perhaps a
> small adjustment of C38 will sort out your problem? The other
thing I
> found was that the starting adjustment should be done after making
sure
> that the trimmer on the polyvaricon is totally out of mesh otherwise
> strange things seem to happen.
>
> I'm no expert but that's what I have noticed.
>
> 73,
>
> John.
> --- In mkars80@..., "fwoodhall" <fwoodhall@> wrote:
> >
> > Hi Steve finished the kit worked 1st go but vfo frequency is
4.282 -
> > 4.594 what have i done wrong? regards Frank G0mzy

> >
>

676. Re: vfo

Yahoo group: mkars80
Date: 2009-02-20 21:11:18 UTC
From: John
Topic: 669 Message: 676

Hi Charles,

That's interesting to hear that it has happened to someone else. As you say it's no problem providing that you keep away from the lowest frequency available. If it's adjusted right to the edge of where it happens then I noticed that moving the main tuning slightly, even in the direction to increase frequency, it would suddenly jump to 5MHz. The lowest stable point on mine is just about the same as yours and since it's outside the band there's no problem. Wonder what causes it though?

73,

John.

--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> John, I experienced almost exactly the same effect as you when I
> built and aligned my MKARS before Christmas. Even your quoted
> frequencies if I recall were about the same where this jump happened
> for me. At the time I thought it might be that C38 was suspect in
> some way or that the PIC program might have a glitch somewhere around
> that frequency or thereabouts. As however I was able to limit my
> MKARS80 tuning range from 3458 up to 3845 by adjustment of the
> Varicon Trimmer it did not present a problem in reality, and my
> MKARS80 has performed reliably to date ever since. However as far as
> I am aware I believe it would still display this phenomena if I were
> to go back to the settings of the Varicon and C38 I had set at the
> time. Maybe others or Steve might like to comment on this if they
> have ever noticed this themselves and can offer a possible
> explanation.
> BTW Steve, Ron behind the scenes has been customising your firmware
> with his Vellerman programmer and even I have managed to enter my
> Callsign into the 16F818 using the Chinese USB programmer I bought on
> eBay, it has been great fun but we both have a long way to go to
> catch up with you Hi Hi
> 73 de Charles G3OTH
>
> --- In mkars80@..., "John" john.g4gcl@ wrote:
> >
> >
> > I don't know if it's the same problem but I noticed that if C38 is
> > adjusted to give 3.45 as I approach that frequency it suddenly
> jumps to
> > 5 MHz! Settling for say 3.46 or 3.47 then it seems stable. Perhaps a
> > small adjustment of C38 will sort out your problem? The other
> thing I

> > found was that the starting adjustment should be done after making
> sure
> > that the trimmer on the polyvaricon is totally out of mesh otherwise
> > strange things seem to happen.
> >
> > I'm no expert but that's what I have noticed.
> >
> > 73,
> >
> > John.
> > --- In mkars80@..., "fwoodhall" <fwoodhall@> wrote:
> > >
> > > Hi Steve finished the kit worked 1st go but vfo frequency is
> 4.282 -
> > > 4.594 what have i done wrong? regards Frank G0mzy
> > >
> >
>

677. Re: [mkars80] Re: Email problems

Yahoo group: mkars80
Date: 2009-02-20 21:15:03 UTC
From: pa0rcl
Topic: 672 Message: 677

Hi John, yes, I got your mail about the MKARS80 article and earlier I got the article itself also. I mailed you back on February 9 and 15. Probably you have not received my mails at all? I do not understand what is happening. Anyway we seem to reach a point where we should stay in touch via our MKARS80's!

Thanks and 73

Ron pa0rcl

----- Original Message -----
From: John
To: mkars80@...
Sent: Friday, February 20, 2009 9:30 PM
Subject: [mkars80] Re: Email problems

Hi Ron,

Did you get the mail I've been sending you over the last week or so? I
never seem to get a reply direct so I just wondered? [:)]

73,

John.
--- In mkars80@..., "pa0rcl" <pa0rcl@...> wrote:
>
> We all get our share of email problems, it seems , Steve, hi.
>
> 73 Ron pa0rcl
>
>
> ----- Original Message -----
> From: Steve drury
> To: mkars80@...
> Sent: Friday, February 20, 2009 9:09 PM
> Subject: [mkars80] Email problems
>
>
> It looks as though my ISP (Tiscali) has lost most of todays emails, if
> any one has emailed me today (to g6alu@...) then please send
> another!
>
> Steve G6ALU
>
>
>
>
> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

678. Sorry Ron

Yahoo group: mkars80
Date: 2009-02-20 21:19:02 UTC
From: John
Topic: 678 Message: 678

I'm very sorry Ron. I just logged onto my mail online and found for some strange reason it had moved your messages to the SPAM folder along with many others which shouldn't be there. I really don't understand the reasoning behind the filters sometime, one message gets through and then anothere which seems to be virtually identical is trashed.
The reason I don't look there very often is that my ISP is BT and since they joined with Yahoo it is difficult to get onto both my online mail and the groups because they have different ID's within Yahoo. If I'm logged into one then log into the other via a different window the first one suddenly takes the latest ID when it's refreshed! Very strange but I don't have to go there often, unless something goes missing of course!
Sorry again,
73,
John.

679. Re: [mkars80] Re: vfo

Yahoo group: mkars80
Date: 2009-02-20 21:42:46 UTC
From: Steve Drury
Topic: 669 Message: 679

You are experiencing an undocumented feature found in early versions of the code, from V2.3 onwards this was cured.

This happens outside of the UK band allocation so I didn't see a need to fix it in a hurry!

John M0TIF kindly offered to re-program PICs for a modest charge (please search previous posts), he will even program the PIC so it displays your call sign at start-up. The latest version V2.4 is much more pleasent to use but having the VFO mod fitted is a MUST.

Note that all MKARS80s supplied with version V2.1 of code or later have the VFO mod as standard.

For those that would like to re-program there own PICs the code is in the group files.

Steve G6ALU

----- Original Message -----
From: "John" <john.g4gcl@...>
To: <mkars80@...>
Sent: Friday, February 20, 2009 9:11 PM
Subject: [mkars80] Re: vfo

>
> Hi Charles,
>
> That's interesting to hear that it has happened to someone else. As you
> say it's no problem providing that you keep away from the lowest
> frequency available. If it's adjusted right to the edge of where it
> happens then I noticed that moving the main tuning slightly, even in the
> direction to increase frequency, it would suddenly jump to 5MHz. The
> lowest stable point on mine is just about the same as yours and since
> it's outside the band there's no problem. Wonder what causes it though?
>
> 73,
>
> John.
>
>
> --- In mkars80@..., "g3oth" <g3oth@...> wrote:
>>
>> John, I experienced almost exactly the same effect as you when I
>> built and aligned my MKARS before Christmas. Even your quoted
>> frequencies if I recall were about the same where this jump happened
>> for me. At the time I thought it might be that C38 was suspect in

>> some way or that the PIC program might have a glitch somewhere around
>> that frequency or thereabouts. As however I was able to limit my
>> MKARS80 tuning range from 3458 up to 3845 by adjustment of the
>> Varicon Trimmer it did not present a problem in reality, and my
>> MKARS80 has performed reliably to date ever since. However as far as
>> I am aware I believe it would still display this phenomena if I were
>> to go back to the settings of the Varicon and C38 I had set at the
>> time. Maybe others or Steve might like to comment on this if they
>> have ever noticed this themselves and can offer a possible
>> explanation.
>> BTW Steve, Ron behind the scenes has been customising your firmware
>> with his Vellerman programmer and even I have managed to enter my
>> Callsign into the 16F818 using the Chinese USB programmer I bought on
>> eBay, it has been great fun but we both have a long way to go to
>> catch up with you Hi Hi
>> 73 de Charles G3OTH
>>
>> --- In mkars80@..., "John" john.g4gcl@ wrote:
>> >
>> >
>> > I don't know if it's the same problem but I noticed that if C38 is
>> > adjusted to give 3.45 as I approach that frequency it suddenly
>> jumps to
>> > 5 MHz! Settling for say 3.46 or 3.47 then it seems stable. Perhaps a
>> > small adjustment of C38 will sort out your problem? The other
>> thing I
>> > found was that the starting adjustment should be done after making
>> sure
>> > that the trimmer on the polyvaricon is totally out of mesh otherwise
>> > strange things seem to happen.
>> >
>> > I'm no expert but that's what I have noticed.
>> >
>> > 73,
>> >
>> > John.
>> > --- In mkars80@..., "fwoodhall" <fwoodhall@> wrote:
>> > >
>> > > Hi Steve finished the kit worked 1st go but vfo frequency is
>> 4.282 -
>> > > 4.594 what have i done wrong? regards Frank G0mzy
>> > >
>> >
>>
>
>
>
>
>
> ------------------------------------

>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.1/1961 - Release Date: 02/19/09
18:45:00

680. Re: vfo

Yahoo group: mkars80
Date: 2009-02-20 22:16:57 UTC
From: g3oth
Topic: 669 Message: 680

Steve, thanks for giving me the explanation to that phenomena.
My firmware was v2.1 at the time if I recall correctly.
As I am now using v2.4 which I downloaded about a week ago to
reprogram my chip, I guess I would not encounter this effect now if I
were to try to revisit the frequencies previously mentioned.
73 de Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> You are experiencing an undocumented feature found in early
versions of the
> code, from V2.3 onwards this was cured.
>
> This happens outside of the UK band allocation so I didn't see a
need to fix
> it in a hurry!
>
> John M0TIF kindly offered to re-program PICs for a modest charge
(please
> search previous posts), he will even program the PIC so it displays
your
> call sign at start-up. The latest version V2.4 is much more
pleasent to use
> but having the VFO mod fitted is a MUST.
>
> Note that all MKARS80s supplied with version V2.1 of code or later
have the
> VFO mod as standard.
>
> For those that would like to re-program there own PICs the code is
in the
> group files.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John" <john.g4gcl@...>
> To: <mkars80@...>
> Sent: Friday, February 20, 2009 9:11 PM
> Subject: [mkars80] Re: vfo
>
>
> >
> > Hi Charles,
> >

> > That's interesting to hear that it has happened to someone else.
As you
> > say it's no problem providing that you keep away from the lowest
> > frequency available. If it's adjusted right to the edge of where
it
> > happens then I noticed that moving the main tuning slightly, even
in the
> > direction to increase frequency, it would suddenly jump to 5MHz.
The
> > lowest stable point on mine is just about the same as yours and
since
> > it's outside the band there's no problem. Wonder what causes it
though?
> >
> > 73,
> >
> > John.
> >
> >
> > --- In mkars80@..., "g3oth" <g3oth@> wrote:
> >>
> >> John, I experienced almost exactly the same effect as you when I
> >> built and aligned my MKARS before Christmas. Even your quoted
> >> frequencies if I recall were about the same where this jump
happened
> >> for me. At the time I thought it might be that C38 was suspect in
> >> some way or that the PIC program might have a glitch somewhere
around
> >> that frequency or thereabouts. As however I was able to limit my
> >> MKARS80 tuning range from 3458 up to 3845 by adjustment of the
> >> Varicon Trimmer it did not present a problem in reality, and my
> >> MKARS80 has performed reliably to date ever since. However as
far as
> >> I am aware I believe it would still display this phenomena if I
were
> >> to go back to the settings of the Varicon and C38 I had set at
the
> >> time. Maybe others or Steve might like to comment on this if they
> >> have ever noticed this themselves and can offer a possible
> >> explanation.
> >> BTW Steve, Ron behind the scenes has been customising your
firmware
> >> with his Vellerman programmer and even I have managed to enter my
> >> Callsign into the 16F818 using the Chinese USB programmer I
bought on
> >> eBay, it has been great fun but we both have a long way to go to
> >> catch up with you Hi Hi
> >> 73 de Charles G3OTH
> >>
> >> --- In mkars80@..., "John" john.g4gcl@ wrote:

> >> >
> >> >
> >> > I don't know if it's the same problem but I noticed that if
C38 is
> >> > adjusted to give 3.45 as I approach that frequency it suddenly
> >> jumps to
> >> > 5 MHz! Settling for say 3.46 or 3.47 then it seems stable.
Perhaps a
> >> > small adjustment of C38 will sort out your problem? The other
> >> thing I
> >> > found was that the starting adjustment should be done after
making
> >> sure
> >> > that the trimmer on the polyvaricon is totally out of mesh
otherwise
> >> > strange things seem to happen.
> >> >
> >> > I'm no expert but that's what I have noticed.
> >> >
> >> > 73,
> >> >
> >> > John.
> >> > --- In mkars80@yahoogroups.co.uk, "fwoodhall" <fwoodhall@>
wrote:
> >> > >
> >> > > Hi Steve finished the kit worked 1st go but vfo frequency is
> >> 4.282 -
> >> > > 4.594 what have i done wrong? regards Frank G0mzy
> >> > >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> > --

>
>
>
> No virus found in this incoming message.

> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.1/1961 - Release Date:
02/19/09
> 18:45:00
>

681. Re: Sorry Ron

Yahoo group: mkars80
Date: 2009-02-20 22:26:16 UTC
From: g3oth
Topic: 678 Message: 681

That is also very interesting John.
My btopenworld.com / btinternet.com /BT Yahoo account has been similarily misbehaving over the past week here, putting incoming mail in the Spam box and introducing delays in incoming mail and possibly blocking my other mypostoffice.co.uk account on occasions. This has never happened here before until this last week.
73 de Charles

--- In mkars80@..., "John" <john.g4gcl@...> wrote:
>
> I'm very sorry Ron. I just logged onto my mail online and found for
> some strange reason it had moved your messages to the SPAM folder
along
> with many others which shouldn't be there. I really don't
understand
> the reasoning behind the filters sometime, one message gets through
and
> then anothere which seems to be virtually identical is trashed.
> The reason I don't look there very often is that my ISP is BT and
since
> they joined with Yahoo it is difficult to get onto both my online
mail
> and the groups because they have different ID's within Yahoo. If
I'm
> logged into one then log into the other via a different window the
> first one suddenly takes the latest ID when it's refreshed! Very
> strange but I don't have to go there often, unless something goes
> missing of course!
> Sorry again,
> 73,
> John.
>

682. Anyone mod their MKARS80 for 40 meters?

Yahoo group: mkars80
Date: 2009-02-21 14:40:17 UTC
From: Terry ONeill
Topic: 682 Message: 682

Here in the US, night time 75 meters is dominated by high power.
Daytime 75 meters is dead.

Here in he US a better band would be 40 especially for us backpackers
(much better antenna options).

Anyone successfully mod their MKARS80 for 40 meters?

The kit looks cool & I am intrigued.

Terry
W8EJO

683. Re: vfo

Yahoo group: mkars80
Date: 2009-02-21 14:47:02 UTC
From: John
Topic: 669 Message: 683

Thanks for that info Steve.

I just built it and tried setting up with the original V1.1 firmware
just to get it going. My intention was to install V2.4 with my callsign
inserted once I had it working because I didn't expect anything in the
earlier version to upset the alignment, obviously an error in my logic!

Anyway I have just loaded V2.4 with my callsign added and the "jump" has
been fixed, I can set the limits no problem at all.

Thanks for the wonderful support as always Steve.

73,

John.
--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> You are experiencing an undocumented feature found in early versions
of the
> code, from V2.3 onwards this was cured.
>
> This happens outside of the UK band allocation so I didn't see a need
to fix
> it in a hurry!
>
> John M0TIF kindly offered to re-program PICs for a modest charge
(please
> search previous posts), he will even program the PIC so it displays
your
> call sign at start-up. The latest version V2.4 is much more pleasent
to use
> but having the VFO mod fitted is a MUST.
>
> Note that all MKARS80s supplied with version V2.1 of code or later
have the
> VFO mod as standard.
>
> For those that would like to re-program there own PICs the code is in
the
> group files.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John" john.g4gcl@...
> To: mkars80@...

> Sent: Friday, February 20, 2009 9:11 PM
> Subject: [mkars80] Re: vfo
>
>
> >
> > Hi Charles,
> >
> > That's interesting to hear that it has happened to someone else. As
you
> > say it's no problem providing that you keep away from the lowest
> > frequency available. If it's adjusted right to the edge of where it
> > happens then I noticed that moving the main tuning slightly, even in
the
> > direction to increase frequency, it would suddenly jump to 5MHz. The
> > lowest stable point on mine is just about the same as yours and
since
> > it's outside the band there's no problem. Wonder what causes it
though?
> >
> > 73,
> >
> > John.
> >
> >
> > --- In mkars80@..., "g3oth" g3oth@ wrote:
> >>
> >> John, I experienced almost exactly the same effect as you when I
> >> built and aligned my MKARS before Christmas. Even your quoted
> >> frequencies if I recall were about the same where this jump
happened
> >> for me. At the time I thought it might be that C38 was suspect in
> >> some way or that the PIC program might have a glitch somewhere
around
> >> that frequency or thereabouts. As however I was able to limit my
> >> MKARS80 tuning range from 3458 up to 3845 by adjustment of the
> >> Varicon Trimmer it did not present a problem in reality, and my
> >> MKARS80 has performed reliably to date ever since. However as far
as
> >> I am aware I believe it would still display this phenomena if I
were
> >> to go back to the settings of the Varicon and C38 I had set at the
> >> time. Maybe others or Steve might like to comment on this if they
> >> have ever noticed this themselves and can offer a possible
> >> explanation.
> >> BTW Steve, Ron behind the scenes has been customising your firmware
> >> with his Vellerman programmer and even I have managed to enter my
> >> Callsign into the 16F818 using the Chinese USB programmer I bought
on
> >> eBay, it has been great fun but we both have a long way to go to
> >> catch up with you Hi Hi

> >> 73 de Charles G3OTH
> >>
> >> --- In mkars80@..., "John" john.g4gcl@ wrote:
> >> >
> >> >
> >> > I don't know if it's the same problem but I noticed that if C38
is
> >> > adjusted to give 3.45 as I approach that frequency it suddenly
> >> jumps to
> >> > 5 MHz! Settling for say 3.46 or 3.47 then it seems stable.
Perhaps a
> >> > small adjustment of C38 will sort out your problem? The other
> >> thing I
> >> > found was that the starting adjustment should be done after
making
> >> sure
> >> > that the trimmer on the polyvaricon is totally out of mesh
otherwise
> >> > strange things seem to happen.
> >> >
> >> > I'm no expert but that's what I have noticed.
> >> >
> >> > 73,
> >> >
> >> > John.
> >> > --- In mkars80@..., "fwoodhall" <fwoodhall@> wrote:
> >> > >
> >> > > Hi Steve finished the kit worked 1st go but vfo frequency is
> >> 4.282 -
> >> > > 4.594 what have i done wrong? regards Frank G0mzy
> >> > >
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.1/1961 - Release Date:
02/19/09
> 18:45:00
>

684. Re: Anyone mod their MKARS80 for 40 meters?

Yahoo group: mkars80
Date: 2009-02-21 14:55:08 UTC
From: John
Topic: 682 Message: 684

Hi Terry,

A little off topic & I apologise but did you see the TAK-40 design in QST May 2008? If I could source some PCB's that would be a very nice 40M project.

If Steves project could be adapted that would be even easier of course. Again apologies for the wandering!

73,

John. G4GCL

--- In mkars80@..., "Terry ONeill" <cpa2000@...> wrote:
>
> Here in the US, night time 75 meters is dominated by high power.
> Daytime 75 meters is dead.
>
> Here in he US a better band would be 40 especially for us backpackers
> (much better antenna options).
>
> Anyone successfully mod their MKARS80 for 40 meters?
>
> The kit looks cool & I am intrigued.
>
> Terry
> W8EJO
>

685. Re: [mkars80] Re: Anyone mod their MKARS80 for 40 meters?

Yahoo group: mkars80
Date: 2009-02-21 15:08:01 UTC
From: Steve Drury
Topic: 682 Message: 685

I will quickly look at the prospect of modding to 40Mtrs, I wasn't keen on
40Mtrs as most seem to use high power!!

Steve G6ALU

I would be interested in the QST article.

----- Original Message -----
From: "John" <john.g4gcl@...>
To: <mkars80@...>
Sent: Saturday, February 21, 2009 2:55 PM
Subject: [mkars80] Re: Anyone mod their MKARS80 for 40 meters?

>
> Hi Terry,
>
> A little off topic & I apologise but did you see the TAK-40 design in
> QST May 2008? If I could source some PCB's that would be a very nice 40M
> project.
>
> If Steves project could be adapted that would be even easier of course.
> Again apologies for the wandering!
>
> 73,
>
> John. G4GCL
>
>
> --- In mkars80@..., "Terry ONeill" <cpa2000@...> wrote:
>>
>> Here in the US, night time 75 meters is dominated by high power.
>> Daytime 75 meters is dead.
>>
>> Here in he US a better band would be 40 especially for us backpackers
>> (much better antenna options).
>>
>> Anyone successfully mod their MKARS80 for 40 meters?
>>
>> The kit looks cool & I am intrigued.
>>
>> Terry
>> W8EJO
>>
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1963 - Release Date: 02/20/09
19:22:00

686. Re: Anyone mod their MKARS80 for 40 meters?

Yahoo group: mkars80
Date: 2009-02-21 15:12:24 UTC
From: John
Topic: 682 Message: 686

I will sort that out Steve. I must admit I was going to ask where you
got those superb PCB's made!

73,

John.
--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I will quickly look at the prospect of modding to 40Mtrs, I wasn't
keen on
> 40Mtrs as most seem to use high power!!
>
> Steve G6ALU
>
> I would be interested in the QST article.
>
> ----- Original Message -----
> From: "John" john.g4gcl@...
> To: mkars80@yahoogroups.co.uk
> Sent: Saturday, February 21, 2009 2:55 PM
> Subject: [mkars80] Re: Anyone mod their MKARS80 for 40 meters?
>
>
> >
> > Hi Terry,
> >
> > A little off topic & I apologise but did you see the TAK-40 design
in
> > QST May 2008? If I could source some PCB's that would be a very nice
40M
> > project.
> >
> > If Steves project could be adapted that would be even easier of
course.
> > Again apologies for the wandering!
> >
> > 73,
> >
> > John. G4GCL
> >
> >
> > --- In mkars80@..., "Terry ONeill" cpa2000@ wrote:
> >>
> >> Here in the US, night time 75 meters is dominated by high power.
> >> Daytime 75 meters is dead.

> >>
> >> Here in he US a better band would be 40 especially for us
backpackers
> >> (much better antenna options).
> >>
> >> Anyone successfully mod their MKARS80 for 40 meters?
> >>
> >> The kit looks cool & I am intrigued.
> >>
> >> Terry
> >> W8EJO
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.2/1963 - Release Date:
02/20/09
> 19:22:00
>

687. Re: Anyone mod their MKARS80 for 40 meters?

Yahoo group: mkars80
Date: 2009-02-21 20:07:21 UTC
From: Terry ONeill
Topic: 682 Message: 687

Here is a link to the TAK-40 schematic:

http://wiki.tak-40.org/schematics

The TAK-40 is not available as a kit at this time.

Steve Weber, KD1JV has a kit, the MMR40 but the kit is nearly $200!!
http://www.qrpkits.com/mmr40.html

Yours is attractively priced.

Terry
W8EJO

688. Re: [mkars80] Re: Anyone mod their MKARS80 for 40 meters?

Yahoo group: mkars80
Date: 2009-02-21 20:30:04 UTC
From: Steve Drury
Topic: 682 Message: 688

That's an interesting unit, basically a re-worked Epiphyte with a 10MHz IF.
It looks to be a bit expensive for what it is - perhaps I will paint my
cases orange and put them up to $50!

Its interesting to see that he has used an audio tone to generate CW, this
is the same way as my CW adapter works though mine has a two op amp receive
(and transmit) filter but will be external.

Steve G6ALU

----- Original Message -----
From: "Terry ONeill" <cpa2000@...>
To: <mkars80@...>
Sent: Saturday, February 21, 2009 8:07 PM
Subject: [mkars80] Re: Anyone mod their MKARS80 for 40 meters?

> Here is a link to the TAK-40 schematic:
>
> http://wiki.tak-40.org/schematics
>
> The TAK-40 is not available as a kit at this time.
>
> Steve Weber, KD1JV has a kit, the MMR40 but the kit is nearly $200!!
> http://www.qrpkits.com/mmr40.html
>
> Yours is attractively priced.
>
> Terry
> W8EJO
>
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> ------------------------------------
>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1963 - Release Date: 02/20/09
19:22:00

689. AGC-control

Yahoo group: mkars80
Date: 2009-02-21 20:56:27 UTC
From: sigurd.veland
Topic: 689 Message: 689

Hi out there!

I have just built and tried some qso's on my new ACARS80. And I am very pleased with it, but i miss an AGC . I wonder if there is someones who have made an AGC and if so, - how did they do it.Perhaps also a simple S-meter can be connected to the line?

I have already bad hearing and I am therefore looking for a safe way of listening as the different tones can be very loud some times, even with a small speaker.

Regards

Sigurd Veland LB5MA

690. Re: [mkars80] Re: Anyone mod their MKARS80 for 40 meters?

Yahoo group: mkars80
Date: 2009-02-21 21:13:51 UTC
From: Steve Drury
Topic: 682 Message: 690

>I must admit I was going to ask where you
>got those superb PCB's made!

No secret - its the Chinese! There are a number of sources, ezPCB or for a
UK agent of a Chinese source Rush PCB.

Steve G6ALU

> John.
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> I will quickly look at the prospect of modding to 40Mtrs, I wasn't
> keen on
>> 40Mtrs as most seem to use high power!!
>>
>> Steve G6ALU
>>
>> I would be interested in the QST article.
>>
>> ----- Original Message -----
>> From: "John" john.g4gcl@...
>> To: mkars80@...
>> Sent: Saturday, February 21, 2009 2:55 PM
>> Subject: [mkars80] Re: Anyone mod their MKARS80 for 40 meters?
>>
>>
>> >
>> > Hi Terry,
>> >
>> > A little off topic & I apologise but did you see the TAK-40 design
> in
>> > QST May 2008? If I could source some PCB's that would be a very nice
> 40M
>> > project.
>> >
>> > If Steves project could be adapted that would be even easier of
> course.
>> > Again apologies for the wandering!
>> >
>> > 73,
>> >
>> > John. G4GCL
>> >
>> >
>> > --- In mkars80@..., "Terry ONeill" cpa2000@ wrote:
>> >>

>> >> Here in the US, night time 75 meters is dominated by high power.
>> >> Daytime 75 meters is dead.
>> >>
>> >> Here in he US a better band would be 40 especially for us
> backpackers
>> >> (much better antenna options).
>> >>
>> >> Anyone successfully mod their MKARS80 for 40 meters?
>> >>
>> >> The kit looks cool & I am intrigued.
>> >>
>> >> Terry
>> >> W8EJO
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.0.237 / Virus Database: 270.11.2/1963 - Release Date:
> 02/20/09
>> 19:22:00
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1963 - Release Date: 02/20/09
19:22:00

691. Re: [mkars80] Re: Anyone mod their MKARS80 for 40 meters?

Yahoo group: mkars80
Date: 2009-02-21 23:19:31 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 682   Message: 691

Over here, Steve, 40M is the band of choice for QRP.

Steve Drury wrote:
> I will quickly look at the prospect of modding to 40Mtrs, I wasn't keen on
> 40Mtrs as most seem to use high power!!
>
> Steve G6ALU
>
> I would be interested in the QST article.
--
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
Nigel A. Gunn. G8IFF W8IFF (was KC8NHF)
1865 El Camino Drive, Xenia, OH 45385-1115, USA 937 825 5032
e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>

692. Re: AGC-control

Yahoo group: mkars80
Date: 2009-02-23 12:30:00 UTC
From: Ron
Topic: 689 Message: 692

Sigurd, I've mailed schematic to you yesterday. Hope you received it,
please confirm.

73 Ron de pa0rcl

693. Re: Hi Steve and all...

Yahoo group: mkars80
Date: 2009-02-23 21:18:20 UTC
From: rfullagar
Topic: 659 Message: 693

OK, Have sorted the fuse blowing, and guess what, you won't be surprised to hear.. it was the builders fault...yes hands up...it was me :)

I hadn't realised that the whole drilled in the case for Q1, when the board was bolted to the case was infact slightly out of alignment...

I have raised Q1 and it has solved the problem.

Thanks to Chris from Stafford and District for the call, won't need the bushes but the transfers sound a good finishing touch. See ya Thursday :)

When is the anticipated release of the CW module/add on, as I want one?

Thanks again

Robert (m0rpf)

--- In mkars80@yahoogroups.co.uk, "rfullagar" <rfullagar@...> wrote:
>
>
> Built the MKARS80, that arrive promptly, thanks Steve.
>
> Made one stupid mistake and put Q22 the wrong way round, apart from
> that worked first time.
>
> Only annoying thing I have now is that when I bolt Q1 to the case
> using the pad and bush it blows the fuse...I'm assuming it's a short
> somewhere with the case of Q1 and the ali mounting case.
>
> Do ya think I can find it :)
>
> Will keep trying...great kit.
>
> Rob (m0rpf)
>

694. Re: [mkars80] Re: Hi Steve and all...

Yahoo group: mkars80
Date: 2009-02-23 22:37:50 UTC
From: Steve Drury
Topic: 659 Message: 694

Give me a couple of weeks (at least), the PCBs are due this week then it needs instructions and final testing by John M0TIF our CW "expert".

Glad you sorted the fuse blowing!

Steve G6ALU

----- Original Message -----
From: "rfullagar" <rfullagar@...>
To: <mkars80@...>
Sent: Monday, February 23, 2009 9:18 PM
Subject: [mkars80] Re: Hi Steve and all...

> OK, Have sorted the fuse blowing, and guess what, you won't be
> surprised to hear.. it was the builders fault...yes hands up...it was
> me :)
>
> I hadn't realised that the whole drilled in the case for Q1, when the
> board was bolted to the case was infact slightly out of alignment...
>
> I have raised Q1 and it has solved the problem.
>
> Thanks to Chris from Stafford and District for the call, won't need
> the bushes but the transfers sound a good finishing touch. See ya
> Thursday :)
>
> When is the anticipated release of the CW module/add on, as I want one?
>
> Thanks again
>
> Robert (m0rpf)
>
> --- In mkars80@..., "rfullagar" <rfullagar@...> wrote:
>>
>>
>> Built the MKARS80, that arrive promptly, thanks Steve.
>>
>> Made one stupid mistake and put Q22 the wrong way round, apart from
>> that worked first time.
>>
>> Only annoying thing I have now is that when I bolt Q1 to the case
>> using the pad and bush it blows the fuse...I'm assuming it's a short
>> somewhere with the case of Q1 and the ali mounting case.
>>
>> Do ya think I can find it :)
>>

>> Will keep trying...great kit.
>>
>> Rob (m0rpf)
>>
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.2/1965 - Release Date: 02/21/09
15:36:00

695. Re: [mkars80] Re: Hi Steve and all...

Yahoo group: mkars80
Date: 2009-02-23 22:48:53 UTC
From: John Housego
Topic: 659 Message: 695

Oooo er Steve, not sure about the "expert" bit Hi Hi but looking forward to the final testing. If the proto type I have been using is anything to go by then there should be no problems, its very good indeed.

John (m0TIF)

Steve Drury wrote:
>
> Give me a couple of weeks (at least), the PCBs are due this week then it
> needs instructions and final testing by John M0TIF our CW "expert".
>
> Glad you sorted the fuse blowing!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "rfullagar" <rfullagar@...
> <mailto:rfullagar%40worldonline.co.uk>>
> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> Sent: Monday, February 23, 2009 9:18 PM
> Subject: [mkars80] Re: Hi Steve and all...
>
> > OK, Have sorted the fuse blowing, and guess what, you won't be
> > surprised to hear.. it was the builders fault...yes hands up...it was
> > me :)
> >
> > I hadn't realised that the whole drilled in the case for Q1, when the
> > board was bolted to the case was infact slightly out of alignment...
> >
> > I have raised Q1 and it has solved the problem.
> >
> > Thanks to Chris from Stafford and District for the call, won't need
> > the bushes but the transfers sound a good finishing touch. See ya
> > Thursday :)
> >
> > When is the anticipated release of the CW module/add on, as I want one?
> >
> > Thanks again
> >
> > Robert (m0rpf)
> >
> > --- In mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>, "rfullagar" <rfullagar@...> wrote:
> >>
> >>

> >> Built the MKARS80, that arrive promptly, thanks Steve.
> >>
> >> Made one stupid mistake and put Q22 the wrong way round, apart from
> >> that worked first time.
> >>
> >> Only annoying thing I have now is that when I bolt Q1 to the case
> >> using the pad and bush it blows the fuse...I'm assuming it's a short
> >> somewhere with the case of Q1 and the ali mounting case.
> >>
> >> Do ya think I can find it :)
> >>
> >> Will keep trying...great kit.
> >>
> >> Rob (m0rpf)
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.2/1965 - Release Date: 02/21/09
> 15:36:00
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>

[Non-text portions of this message have been removed]

696. some kind of static buster for front end and huff n puff stabiliser question

Yahoo group: mkars80
Date: 2009-02-28 15:39:29 UTC
From: gee3yrq
Topic: 696 Message: 696

Hi thanks for letting me join the group, I intend to purchase the mkars80 kit asap.
Is there some kind of front end static prevention from building up and blowing any associated circuitry??,Also does the pic need blowing? can someone suggest one of these..I've a vague recollection of either Maplin or Rapid having this type of technology available. thanks ian.

697. Re: [mkars80] some kind of static buster for front end and huff n puff stabiliser question

Yahoo group: mkars80
Date: 2009-02-28 15:48:21 UTC
From: Steve Drury
Topic: 696 Message: 697

Ian,

The PIC comes ready programmed.

There isn't a static discharge path so if you are using an antenna isolated from ground (balloon kite etc) then it would be very wise to either fit a high value resistor (10K - 47K) across the coax terminations either within the transceiver or perhaps inside an accompanying SWR meter.

Some SWR meters by their design have a DC patch between coax inner and outer.

Steve G6ALU

----- Original Message -----
From: "gee3yrq" <g3yrq@...>
To: <mkars80@...>
Sent: Saturday, February 28, 2009 3:39 PM
Subject: [mkars80] some kind of static buster for front end and huff n puff stabiliser question

> Hi thanks for letting me join the group, I intend to purchase the
> mkars80 kit asap.
> Is there some kind of front end static prevention from building up and
> blowing any associated circuitry??,Also does the pic need blowing? can
> someone suggest one of these..I've a vague recollection of either
> Maplin or Rapid having this type of technology available. thanks ian.
>
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> Yahoo! Groups Links
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>

698. RE: [mkars80] some kind of static buster for front end and huff n puff stabiliser question

Yahoo group: mkars80
Date: 2009-03-01 00:29:53 UTC
From: David White
Topic: 696 Message: 698

steve, many of our aerials overseas where static was high had the aerial connected directly to ground via a coil which was tapped to get the right impendance and everything else was directed to ground DC wise but isolated RF wise. you wud probably know this anyway, i am trying not to teach you to suck eggs heheheheh de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Sat, 28 Feb 2009 15:48:21 +0000
Subject: Re: [mkars80] some kind of static buster for front end and huff n puff stabiliser question

Ian,

The PIC comes ready programmed.

There isn't a static discharge path so if you are using an antenna isolated
from ground (balloon kite etc) then it would be very wise to either fit a
high value resistor (10K - 47K) across the coax terminations either within
the transceiver or perhaps inside an accompanying SWR meter.

Some SWR meters by their design have a DC patch between coax inner and
outer.

Steve G6ALU

----- Original Message -----
From: "gee3yrq" <g3yrq@...>
To: <mkars80@...>
Sent: Saturday, February 28, 2009 3:39 PM
Subject: [mkars80] some kind of static buster for front end and huff n puff
stabiliser question

> Hi thanks for letting me join the group, I intend to purchase the
> mkars80 kit asap.
> Is there some kind of front end static prevention from building up and
> blowing any associated circuitry??,Also does the pic need blowing? can
> someone suggest one of these..I've a vague recollection of either
> Maplin or Rapid having this type of technology available. thanks ian.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

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>

_____
Check out the new and improved services from Windows Live. Learn more!
http://clk.atdmt.com/UKM/go/132630768/direct/01/

[Non-text portions of this message have been removed]

699. USA users: WWV problems?

Yahoo group: mkars80
Date: 2009-03-01 12:39:22 UTC
From: Bruce Beford
Topic: 699 Message: 699

Hello to the group.

I have received my MKARS80 kit, and am looking forward to the build. Congratulations to the club on what appears to be an excellent kitting effort. Obviously a lot of work goes into preparing each unit.

My question is for primarily any users in the US- Has anyone experienced problems with the 10 MHz IF passing signals from WWV on that frequency? I would expect that perhaps in the eastern areas this may not be an issue, but more so out west as you get closer to Boulder, CO with it's consistantly strong signals.

If needed, I can move the IF to 9 or 11 MHz, adjust the VFO range and reprogram the PIC. I would be interested to hear if anyone has had an actual issue with WWV. I know earlier QRP kits over here were redesigned away from a 10 MHz IF for this reason.

Thanks for any thoughts,
Bruce N1RX

700. Re: [mkars80] USA users: WWV problems?

Yahoo group: mkars80
Date: 2009-03-01 15:19:54 UTC
From: Larry Critchfield
Topic: 699 Message: 700

Hi Bruce,
I have my kit but due to other responsibility's I have not built it.
I live in PA and was wondering about the WWW.
Some folks here in the US have their kits up and running.
Hopefully they will respond here and let us know their findings.
I am most interested in this so please keep in touch
73's
Larry WS3Z
ws3z711@...

On Sun, Mar 1, 2009 at 7:39 AM, Bruce Beford
<bruce.beford@...>wrote:

> Hello to the group.
>
> I have received my MKARS80 kit, and am looking forward to the build.
> Congratulations to the club on what appears to be an excellent kitting
> effort. Obviously a lot of work goes into preparing each unit.
>
> My question is for primarily any users in the US- Has anyone
> experienced problems with the 10 MHz IF passing signals from WWV on
> that frequency? I would expect that perhaps in the eastern areas this
> may not be an issue, but more so out west as you get closer to Boulder,
> CO with it's consistantly strong signals.
>
> If needed, I can move the IF to 9 or 11 MHz, adjust the VFO range and
> reprogram the PIC. I would be interested to hear if anyone has had an
> actual issue with WWV. I know earlier QRP kits over here were
> redesigned away from a 10 MHz IF for this reason.
>
> Thanks for any thoughts,
> Bruce N1RX
>
>
>

[Non-text portions of this message have been removed]

701. New member here

Yahoo group: mkars80
Date: 2009-03-01 16:46:43 UTC
From: byling4
Topic: 701 Message: 701

Hello all
Thanks for permitting me entry to the group,...I purchased
and received the kit this past week but other commitments mean I wont
start building it till later this year,{winter project}...however it
gives me plenty of time to learn from the rest of you,..Thanks and
regards to all Colin GM7TFN

702. Re:USA users: WWV problems?

Yahoo group: mkars80
Date: 2009-03-02 12:39:11 UTC
From: MIke mustang
Topic: 699 Message: 702

I live in Pittsburgh,Pa and until you mentioned it I never even thought about the 10Mhz if problem. I used mine on 80 a few times at night and never had a problem. I will try it today during the day (I am off sick) and I will let you know...

Mike WA3O

703. Re:USA users: WWV problems?

Yahoo group: mkars80
Date: 2009-03-02 12:56:59 UTC
From: MIke mustang
Topic: 699 Message: 703

I don't know if this means anything but I just tried my Mkars80 and with 10 mhz WWV @ S9+40db It doesn't seem to be a problem here on the east coast. I think we need to get someone on the west coast.

Mike WA3O

704. Re:USA users: WWV problems?

Yahoo group: mkars80
Date: 2009-03-02 15:01:11 UTC
From: Bruce Beford
Topic: 699 Message: 704

--- In mkars80@..., MIke mustang <mikeymustang2000@...>
wrote:
>
>
> I don't know if this means anything but I just tried my Mkars80 and
with 10 mhz WWV @ S9+40db It doesn't seem to be a problem here on the
east coast. I think we need to get someone on the west coast.
>
> Mike WA3O
>

Thanks for the data point. Mike. That bodes well for my use here in New
England.

73,
Bruce N1RX

705. Special event and net

Yahoo group: mkars80
Date: 2009-03-03 22:04:14 UTC
From: Steve Drury
Topic: 705 Message: 705

The Milton Keynes Amateur radio Society (MKARS) will be active from the Milton keynes Museum www.mkmuseum.org.uk/ this Saturday and Sunday 7th and 8th March.

I thought it a good idea to see if we can arange an MKARS80 net, suggested time is 10:00 AM UTC on Sunday frequency 3.760 MHz ± QRM, this is the WAP net frequency so if they are active we will QSY.

Let me know if you have any better ideas!

Steve G6ALU

[Non-text portions of this message have been removed]

706. here we go then

Yahoo group: mkars80
Date: 2009-03-08 23:00:37 UTC
From: mark2w0jmk
Topic: 706 Message: 706

Hi all well i bought the kit and built it all went ok but every time i pushed the tx button there was a buzzing sound coming out of the speaker.
After looking at the pcb for half an hour i found the problem q4 was in the wrong way Oo well out it came and all sounded ok.
Now time to tune the tx side of it and guess what i blew q1 thats it i thought i need a break.
So i have bought two irf510's just have to wait for them to turn up now.

Can i just say as well that the kit is fantastic really well thought out and fun to build just wish it had a signal meter all the best to you all from mark 2w0jmk

707. Re: [mkars80] here we go then

Yahoo group: mkars80
Date: 2009-03-08 23:09:59 UTC
From: Steve Drury
Topic: 706 Message: 707

Mark, sorry to hear you had problems... how did you blow the IRF510? As long as they are kept cool then they are quite hardy.

If you had let me know I would have replaced the IRF510 free of charge.

Regards,
Steve G6ALU

----- Original Message -----
From: "mark2w0jmk" <mw3hqt@...>
To: <mkars80@...>
Sent: Sunday, March 08, 2009 11:00 PM
Subject: [mkars80] here we go then

> Hi all well i bought the kit and built it all went ok but every time i
> pushed the tx button there was a buzzing sound coming out of the speaker.
> After looking at the pcb for half an hour i found the problem q4 was in
> the wrong way Oo well out it came and all sounded ok.
> Now time to tune the tx side of it and guess what i blew q1 thats it i
> thought i need a break.
> So i have bought two irf510's just have to wait for them to turn up now.
>
> Can i just say as well that the kit is fantastic really well thought out
> and fun to build just wish it had a signal meter all the best to you all
> from mark 2w0jmk
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.9/1989 - Release Date: 03/07/09 18:43:00

708. Re: here we go then

Yahoo group: mkars80
Date: 2009-03-08 23:28:18 UTC
From: mark2w0jmk
Topic: 706 Message: 708

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Mark, sorry to hear you had problems... how did you blow the IRF510? As long
> as they are kept cool then they are quite hardy.
>
> If you had let me know I would have replaced the IRF510 free of charge.
>
> Regards,
> Steve G6ALU
>

Hi Steve no probs mate it was my fault pressing the tx button for to long and turning R2 a little to far. popped the fuse and Q1 was very hot put in another fuse and that one blew as well. I removed Q1 and it does not blow fuses now so i suspect it is QI live and learn as they say.
Mark 2w0jmk

709. Mod for 40m

Yahoo group: mkars80
Date: 2009-03-12 10:26:31 UTC
From: Ron
Topic: 709 Message: 709

Hi Steve, I was wondering if you had any news yet about a possible mod for 40m?
Thanks and 73 Ron de pa0rcl

710. Re: [mkars80] Mod for 40m

Yahoo group: mkars80
Date: 2009-03-12 20:06:24 UTC
From: Steve Drury
Topic: 709 Message: 710

Sorry I don't Ron, I've spent all my time helping builders and bringing the CW adapter ready for release. It is planned to be released middle of next week, I will make an announcement when it is ready and probably only let about 10 kits out to quick builders just to check everything is OK.

Wasn't someone going to try a mod to 40M, if so please let us know how you are getting on.

Steve G6ALU

----- Original Message -----
From: "Ron" <pa0rcl@...>
To: <mkars80@...>
Sent: Thursday, March 12, 2009 10:26 AM
Subject: [mkars80] Mod for 40m

> Hi Steve, I was wondering if you had any news yet about a possible mod for
> 40m?
> Thanks and 73 Ron de pa0rcl
>
>
>
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>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.10/1995 - Release Date: 03/11/09 08:28:00

711. Re: [mkars80] Mod for 40m

Yahoo group: mkars80
Date: 2009-03-12 21:19:46 UTC
From: pa0rcl
Topic: 709 Message: 711

OK Steve, probably I will give it a go myself. As far as I can see
from the assembler file, I do not think the firmware needs to be
modified, or does it?
BTW I abandoned the idea of an S-meter incorporated in the MKARS80's
PIC, instead of the battery indicator. Too complicated for my limited
knowledge of PICs!
I do appreciate all the work you do helping builders and releasing
the CW adapter and I will wait for your announcement.

73's Ron de pa0rcl

Op 12-mrt-2009, om 21:06 heeft Steve Drury het volgende geschreven:

> Sorry I don't Ron, I've spent all my time helping builders and
> bringing the
> CW adapter ready for release. It is planned to be released middle
> of next
> week, I will make an announcement when it is ready and probably
> only let
> about 10 kits out to quick builders just to check everything is OK.
>
> Wasn't someone going to try a mod to 40M, if so please let us know
> how you
> are getting on.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Ron" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Thursday, March 12, 2009 10:26 AM
> Subject: [mkars80] Mod for 40m
>
> > Hi Steve, I was wondering if you had any news yet about a
> possible mod for
> > 40m?
> > Thanks and 73 Ron de pa0rcl
> >
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.237 / Virus Database: 270.11.10/1995 - Release Date:
> 03/11/09
> 08:28:00
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>

73 Ron pa0rcl

[Non-text portions of this message have been removed]

712. Re: Mod for 40m

Yahoo group: mkars80
Date: 2009-03-12 22:36:57 UTC
From: Terry ONeill
Topic: 709 Message: 712

Since the MKARS80 is based on the BITX20, you could maybe go to the BITX20 Yahoo group & take a look in the Files section. There you'll find a Schematic for a BITX40. This should provide clues to a MKARS40.

Terry
W8EJO

--- In mkars80@..., pa0rcl <pa0rcl@...> wrote:
>
> OK Steve, probably I will give it a go myself. As far as I can see
> from the assembler file, I do not think the firmware needs to be
> modified, or does it?
> BTW I abandoned the idea of an S-meter incorporated in the MKARS80's
> PIC, instead of the battery indicator. Too complicated for my limited
> knowledge of PICs!
> I do appreciate all the work you do helping builders and releasing
> the CW adapter and I will wait for your announcement.
>
> 73's Ron de pa0rcl
>
>
> Op 12-mrt-2009, om 21:06 heeft Steve Drury het volgende geschreven:
> 49
> > Sorry I don't Ron, I've spent all my time helping builders and
> > bringing the
> > CW adapter ready for release. It is planned to be released middle
> > of next
> > week, I will make an announcement when it is ready and probably
> > only let
> > about 10 kits out to quick builders just to check everything is OK.
> >
> > Wasn't someone going to try a mod to 40M, if so please let us know
> > how you
> > are getting on.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Ron" <pa0rcl@...>
> > To: <mkars80@...>
> > Sent: Thursday, March 12, 2009 10:26 AM
> > Subject: [mkars80] Mod for 40m
> >
> > > Hi Steve, I was wondering if you had any news yet about a
> > possible mod for

> > > 40m?
> > > Thanks and 73 Ron de pa0rcl
> > >
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> > > Yahoo! Groups Links
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> > Checked by AVG - www.avg.com
> > Version: 8.0.237 / Virus Database: 270.11.10/1995 - Release Date:
> > 03/11/09
> > 08:28:00
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> 73 Ron pa0rcl
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>
> [Non-text portions of this message have been removed]
>

713. volume controle mod

Yahoo group: mkars80
Date: 2009-03-13 21:41:00 UTC
From: mark2w0jmk
Topic: 713 Message: 713

Hi Steve can you tell me why there is no volume control incorporated into the MKARS80 and is there a mod to install one thanks.

714. Re: [mkars80] volume controle mod

Yahoo group: mkars80
Date: 2009-03-13 21:47:16 UTC
From: Steve Drury
Topic: 713 Message: 714

Hello Mark,

The RF gain functions as a volume control.

Steve G6ALU

----- Original Message -----
From: "mark2w0jmk" <mw3hqt@...>
To: <mkars80@...>
Sent: Friday, March 13, 2009 9:41 PM
Subject: [mkars80] volume controle mod

> Hi Steve can you tell me why there is no volume control incorporated into
> the MKARS80 and is there a mod to install one thanks.
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.13/1999 - Release Date: 03/13/09
05:59:00

715. mkars80

Yahoo group: mkars80
Date: 2009-03-13 21:58:22 UTC
From: mark2w0jmk
Topic: 102 Message: 715

Hi Steve yes i now that i am just wondering if one can be put into it as when listening to some stations that are a bit week there is sometimes some very strong clicks and what have you and a volume control would help.

716. re: volume control

Yahoo group: mkars80
Date: 2009-03-13 23:47:39 UTC
From: r.southworth@btinternet.com
Topic: 102 Message: 716

I feel like a bit of a fraud, because I haven't yet built the MKARS80 kit... I was going to add an adjustable AGC to the audio side because of the way AM deafens when there is a strong signal. Penfold's 'Preamplifier and Filter circuits' (a Babani book) has a circuit I was going to look at. My intention was to have a look on the Net, to see how different people have implemented AGC, and design a hopeful-looking circuit. Do a search for AGC schematic and see what you come up with.

Ralph (G6GCX)

--- In mkars80@yahoogroups.co.uk, "mark2w0jmk" <mw3hqt@...> wrote:
>
> Hi Steve yes i now that i am just wondering if one can be put into it as when listening to some stations that are a bit week there is sometimes some very strong clicks and what have you and a volume control would help.
>

717. Eagerly awaiting the CW kit... here's an iambic add-on.

Yahoo group: mkars80
Date: 2009-03-14 00:04:34 UTC
From: r.southworth@btinternet.com
Topic: 717 Message: 717

30 years after getting my licence, I have started to learn morse code. Steve's MKARS80 kit, with its proposed CW add-on was irresistable. Whilst I am waiting, I bought the PicoKeyer-plus from www.hamgadgets.com and it is great fun! I reckon that it will be a brilliant front-end to this CW mod. Now all I have to do is to build the MKARS80 radio and finish getting up to 12wpm. That's all. What could be difficult about that? er. Ralph (G6GCX)

718. Re: [mkars80] Eagerly awaiting the CW kit... here's an iambic add-on.

Yahoo group: mkars80
Date: 2009-03-14 09:33:55 UTC
From: Steve Drury
Topic: 717 Message: 718

The CW adapter includes a keyer as an option for an additional ?5 - the design is from DL4YHF see http://www.qsl.net/dl4yhf/pic_key.html and is reported to work well. The PCB is powered by an intgral Lithium battery, I have Wolfgang's permision to use this.

This is made on a break-off section of the main PCB so can be used externally. It was really included to use up a bit of "spare" PCB space.

I have put some pictures of the confirmation prototype in the files section of the group - thanks to John M0TIF for building it with only a component list!

Kits should be available by next weekend and subject to checking component costs (they are STILL increasing due to the ?/$) will be ?20 for the CW adapter with components for the keyer ?5 extra. Postage has yet to be calculated.

Steve G6ALU

----- Original Message -----
From: <r.southworth@...>
To: <mkars80@...>
Sent: Saturday, March 14, 2009 12:04 AM
Subject: [mkars80] Eagerly awaiting the CW kit... here's an iambic add-on.

> 30 years after getting my licence, I have started to learn morse code.
> Steve's MKARS80 kit, with its proposed CW add-on was irresistable. Whilst
> I am waiting, I bought the PicoKeyer-plus from www.hamgadgets.com and it
> is great fun! I reckon that it will be a brilliant front-end to this CW
> mod. Now all I have to do is to build the MKARS80 radio and finish getting
> up to 12wpm. That's all. What could be difficult about that? er. Ralph
> (G6GCX)
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.237 / Virus Database: 270.11.13/1999 - Release Date: 03/13/09

05:59:00

719. Re: [mkars80] Eagerly awaiting the CW kit... here's an iambic add-on.

Yahoo group: mkars80
Date: 2009-03-14 09:43:20 UTC
From: Steve Drury
Topic: 717 Message: 719

OK, in a senior moment I put the photos in the files section... I wil move them to the photo section later!

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Saturday, March 14, 2009 9:33 AM
Subject: Re: [mkars80] Eagerly awaiting the CW kit... here's an iambic add-on.

> The CW adapter includes a keyer as an option for an additional ?5 - the
> design is from DL4YHF see http://www.qsl.net/dl4yhf/pic_key.html and is
> reported to work well. The PCB is powered by an intgral Lithium battery, I
> have Wolfgang's permision to use this.
>
> This is made on a break-off section of the main PCB so can be used
> externally. It was really included to use up a bit of "spare" PCB space.
>
> I have put some pictures of the confirmation prototype in the files
> section
> of the group - thanks to John M0TIF for building it with only a component
> list!
>
> Kits should be available by next weekend and subject to checking component
> costs (they are STILL increasing due to the ?/$) will be ?20 for the CW
> adapter with components for the keyer ?5 extra. Postage has yet to be
> calculated.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <r.southworth@...>
> To: <mkars80@...>
> Sent: Saturday, March 14, 2009 12:04 AM
> Subject: [mkars80] Eagerly awaiting the CW kit... here's an iambic add-on.
>
>
>> 30 years after getting my licence, I have started to learn morse code.
>> Steve's MKARS80 kit, with its proposed CW add-on was irresistable. Whilst
>> I am waiting, I bought the PicoKeyer-plus from www.hamgadgets.com and it
>> is great fun! I reckon that it will be a brilliant front-end to this CW
>> mod. Now all I have to do is to build the MKARS80 radio and finish
>> getting
>> up to 12wpm. That's all. What could be difficult about that? er. Ralph

>> (G6GCX)
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> No virus found in this incoming message.
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720. Re: Eagerly awaiting the CW kit... here's an iambic add-on.

Yahoo group: mkars80
Date: 2009-03-14 10:21:14 UTC
From: r.southworth@btinternet.com
Topic: 717 Message: 720

£5 is a good price: I paid about $17 for mine. Oh well; that'll teach me to dream ahead. Mind you, I'm still enjoying playing with it.

Ralph G6GCX

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> OK, in a senior moment I put the photos in the files section... I wil move
> them to the photo section later!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@....uk>
> Sent: Saturday, March 14, 2009 9:33 AM
> Subject: Re: [mkars80] Eagerly awaiting the CW kit... here's an iambic
> add-on.
>
>
> > The CW adapter includes a keyer as an option for an additional £5 - the
> > design is from DL4YHF see http://www.qsl.net/dl4yhf/pic_key.html and is
> > reported to work well. The PCB is powered by an intgral Lithium battery, I
> > have Wolfgang's permision to use this.
> >
> > This is made on a break-off section of the main PCB so can be used
> > externally. It was really included to use up a bit of "spare" PCB space.
> >
> > I have put some pictures of the confirmation prototype in the files
> > section
> > of the group - thanks to John M0TIF for building it with only a component
> > list!
> >
> > Kits should be available by next weekend and subject to checking component
> > costs (they are STILL increasing due to the £/$) will be £20 for the CW
> > adapter with components for the keyer £5 extra. Postage has yet to be
> > calculated.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <r.southworth@...>
> > To: <mkars80@...>
> > Sent: Saturday, March 14, 2009 12:04 AM
> > Subject: [mkars80] Eagerly awaiting the CW kit... here's an iambic add-on.

> >
> >
> >> 30 years after getting my licence, I have started to learn morse code.
> >> Steve's MKARS80 kit, with its proposed CW add-on was irresistable. Whilst
> >> I am waiting, I bought the PicoKeyer-plus from www.hamgadgets.com and it
> >> is great fun! I reckon that it will be a brilliant front-end to this CW
> >> mod. Now all I have to do is to build the MKARS80 radio and finish
> >> getting
> >> up to 12wpm. That's all. What could be difficult about that? er. Ralph
> >> (G6GCX)
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> > > No virus found in this incoming message.
> > > Checked by AVG - www.avg.com
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> > > 05:59:00
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721. Re: [mkars80] Eagerly awaiting the CW kit... here's an iambic add-on.

Yahoo group: mkars80
Date: 2009-03-14 11:35:32 UTC
From: John Housego
Topic: 717 Message: 721

Hello Ralph

Delighted to hear you have started learning Morse and wish you every success with it. My advice (and there is plenty about) is to learn to read Morse by listening first before ever touching a key to send, you need to recognise each character as an individual sound. 15 minutes a day every day and you will soon be at 12WPM.

Good luck, looking forward to hearing you on the key.

John (M0TIF)

On Sat, 2009-03-14 at 00:04 +0000, r.southworth@... wrote:
> 30 years after getting my licence, I have started to learn morse code.
> Steve's MKARS80 kit, with its proposed CW add-on was irresistable.
> Whilst I am waiting, I bought the PicoKeyer-plus from
> www.hamgadgets.com and it is great fun! I reckon that it will be a
> brilliant front-end to this CW mod. Now all I have to do is to build
> the MKARS80 radio and finish getting up to 12wpm. That's all. What
> could be difficult about that? er. Ralph (G6GCX)
>
>
>
>
>

[Non-text portions of this message have been removed]

722. Re: Eagerly awaiting the CW kit... here's an iambic add-on.

Yahoo group: mkars80
Date: 2009-03-14 21:28:17 UTC
From: r.southworth@btinternet.com
Topic: 717 Message: 722

Thanks for the encouraging words, John. I recorded a lot of MP3s from my old G3HSC records and from morsecat
(http://www.morsecat.de/index.html). I have been listening to them in the car, but need to practice writing characters down as I listen to them. My ossified brain is finding it tough going. BTW, there is another Babani book called 'Projects for Radio Amateurs and S.W.L.s with lots of interesting add-on circuits which might be useable with the MKARS80.
Ralph G6GCX

--- In mkars80@..., John Housego <John.Housego1@...> wrote:
>
> Hello Ralph
>
> Delighted to hear you have started learning Morse and wish you every
> success with it. My advice (and there is plenty about) is to learn to
> read Morse by listening first before ever touching a key to send, you
> need to recognise each character as an individual sound. 15 minutes a
> day every day and you will soon be at 12WPM.
>
> Good luck, looking forward to hearing you on the key.
>
> John (M0TIF)
>
> On Sat, 2009-03-14 at 00:04 +0000, r.southworth@... wrote:
> > 30 years after getting my licence, I have started to learn morse code.
> > Steve's MKARS80 kit, with its proposed CW add-on was irresistable.
> > Whilst I am waiting, I bought the PicoKeyer-plus from
> > www.hamgadgets.com and it is great fun! I reckon that it will be a
> > brilliant front-end to this CW mod. Now all I have to do is to build
> > the MKARS80 radio and finish getting up to 12wpm. That's all. What
> > could be difficult about that? er. Ralph (G6GCX)
> >
> >
> >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

723. VFO Mod parts.

Yahoo group: mkars80
Date: 2009-03-18 12:23:39 UTC
From: Mikael Czerski
Topic: 723 Message: 723

Hi,

Does anyone know where one can get MVAM109 here in the UK? and what it should be priced at?

Another thing has anyone attempted doing a VFO mod using 5W 15V Zener diodes or similar?

- Mike

- Mikael Czerski -
Phone: +44 7879424613 (celluar)
Hamradio: M0RBD (LA6IMA)

-----BEGIN GEEK CODE BLOCK-----
Version: 3.1
GCS/CM/CC/E/G/IT/MC/M/MU/S d(--)@>-- s:(++)>++ a- C++++
UBLUAVHISCX*---(on)>++++ P+++++>+++++ L>++++ E>--- W>+++ N>++++ o K--@
w$>---$ O>+ M>++ V PS PE Y PGP>++++ t 5 X>++ R>+++ tv>+ b>++++ DI D>++ G>++
e>++ h>++ r>++ y
------END GEEK CODE BLOCK------

724. Re: VFO Mod parts.

Yahoo group: mkars80
Date: 2009-03-18 13:13:53 UTC
From: panzerbeeb
Topic: 723 Message: 724

Hi Mike,

Try looking on ebay: rfplus have 4 on auction:
http://cgi.ebay.co.uk/Motorola-MVAM109-BIG-Varactor-Diode-40-440pF-Qty-4_W0QQitemZ370173301109QQcmdZViewItemQQptZUK_BOI_Electrical_Components_Supplies_ET?hash=item370173301109&_trksid=p3286.c0.m14&_trkparms=72%3A1683%7C66%3A4%7C65%3A12%7C39%3A1%7C240%3A1318

or zlowe7 in the us:
http://cgi.ebay.co.uk/MVAM109-Tuning-Diode-20-to-450-pf-Good-for-AM-Band_W0QQitemZ150275620030QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item150275620030&_trksid=p3286.m63.l1177
The us items take about a week to arrive, and work out around £2 each inc postage.

Mike.

--- In mkars80@..., Mikael Czerski <arcticfox@...> wrote:
>
>
> Hi,
>
> Does anyone know where one can get MVAM109 here in the UK? and what it
> should be priced at?
>
> Another thing has anyone attempted doing a VFO mod using 5W 15V Zener
> diodes or similar?
>
> - Mike
>
>
>
>
> - Mikael Czerski -
> Phone: +44 7879424613 (celluar)
> Hamradio: M0RBD (LA6IMA)
>
> -----BEGIN GEEK CODE BLOCK-----
> Version: 3.1
> GCS/CM/CC/E/G/IT/MC/M/MU/S d(--)@>-- s:(++)>++ a- C++++
> UBLUAVHISCX*---(on)>++++ P+++++>+++++ L>++++ E>--- W>+++ N>++++ o K--@
> w$>---$ O>+ M>++ V PS PE Y PGP>++++ t 5 X>++ R>+++ tv>+ b>++++ DI D>++ G>++
> e>++ h>++ r>++ y
> ------END GEEK CODE BLOCK------
>

725. Re: [mkars80] VFO Mod parts.

Yahoo group: mkars80
Date: 2009-03-18 13:44:35 UTC
From: John Housego
Topic: 723 Message: 725

Mike, there are a few sellers of these on ebay. Put MVAM109 in ebay search to see them.

73 de John (M0TIF)

On Wed, 2009-03-18 at 06:23 -0600, Mikael Czerski wrote:
>
> Hi,
>
> Does anyone know where one can get MVAM109 here in the UK? and what
> it
> should be priced at?
>
> Another thing has anyone attempted doing a VFO mod using 5W 15V Zener
> diodes or similar?
>
> - Mike
>
> - Mikael Czerski -
> Phone: +44 7879424613 (celluar)
> Hamradio: M0RBD (LA6IMA)
>
> -----BEGIN GEEK CODE BLOCK-----
> Version: 3.1
> GCS/CM/CC/E/G/IT/MC/M/MU/S d(--)@>-- s:(++)>++ a- C++++
> UBLUAVHISCX*---(on)>++++ P+++++>+++++ L>++++ E>--- W>+++ N>++++ o K--@
> w$>---$ O>+ M>++ V PS PE Y PGP>++++ t 5 X>++ R>+++ tv>+ b>++++ DI D>++
> G>++
> e>++ h>++ r>++ y
> ------END GEEK CODE BLOCK------
>
>
>
>

[Non-text portions of this message have been removed]

727. Re: MKARS40 !

Yahoo group: mkars80
Date: 2009-03-19 16:22:10 UTC
From: g3oth
Topic: 726 Message: 727

Hi Ron
I am sure Steve would not mind you posting the modifications in the files section, and I for one would be interested in reading them should you be prepared to do so.
I am still toying with the idea of making a Top Band version of the MKARS80 or BITX20 but think it will have to wait for the Winter now that the light in the evenings is lengthening here and the WX has improved dramaatically during the last few days, although I hope to still have some time to fit in making the CW kit when it becomes available, before then.
73 de Charles G3OTH

--- In mkars80@..., "Ron" <pa0rcl@...> wrote:
>
> Hello all,
>
> For those interested I can report here that I have successfully modified the MKARS80 into an MKARS40. It is a matter of changeing a few coils and capacitors. I sacrificed one of my three varactor tuned MKARS80s to undergo the transformation. It was an evening's job and not difficult to do.
> If there is any interest I can describe how I did it and post it in the files section as a PDF, Steve permitting of course.
>
> 73 Ron de pa0rcl
>

728. Re: [mkars80] MKARS40 !

Yahoo group: mkars80
Date: 2009-03-19 16:20:29 UTC
From: g6alu@tiscali.co.uk
Topic: 726 Message: 728

Lets see how you did it Ron, I guess the VFO is now running at about 2.8 - 3MHz? Have you measured the second harmonic of the VFO?

If succesfull it shouldn't be a problem to do a mod kit.

Steve G6ALU

>----Original Message----
>From: pa0rcl@...
>Date: 19/03/2009 13:45
>To: <mkars80@...>
>Subj: [mkars80] MKARS40 !
>
>Hello all,
>
>For those interested I can report here that I have successfully modified the MKARS80 into an MKARS40. It is a matter of changeing a few coils and capacitors. I sacrificed one of my three varactor tuned MKARS80s to undergo the transformation. It was an evening's job and not difficult to do.
>If there is any interest I can describe how I did it and post it in the files section as a PDF, Steve permitting of course.
>
>73 Ron de pa0rcl
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
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>

Get up to 50% off Norton Security - http://www.tiscali.co.uk/securepc

---

730. Re: [mkars80] MKARS40 !

Yahoo group: mkars80
Date: 2009-03-19 19:14:08 UTC
From: pa0rcl
Topic: 726 Message: 730

Hello Steve,

Indeed the VFO is running at 2.9 - 3.0 MHz, as the 40m band in the Netherlands is limited to 7.0 - 7.1 MHz. There is no problem extending it to 7.2 MHz, of course.
The alternative VFO frequency would have been 17 MHz, which is too high in my opinion to keep the VFO stable enough, but I have not tried it.
I have adapted the capacitors and the coils in the filters to 7 MHz. Because the frequency doubled from 3,5 to 7 Mhz, I made both the caps and coils half their previous value.
I have tested the receiver and the transmitter and they seem(ed) to work well.

After reading your post I went back to the shack to measure the VFO's second harmonic with the limited means I have and I must say that this component in my RF-output seems to be too strong indeed. For instance if I transmit at 7.050 MHz, I can hear myself also at 5.900 MHz on another receiver. I had assumed that the ladder filter in the driver stage of the transmitter and the filter towards the antenna would filter this out, it probably does to some extent, but apparently not enough. In the original MKARS80, the problem does not exist because the second harmonic of the VFO is at around 7.2 MHz, whereas the filters are probably tuned at around 3,6 MHz, i.e. far enough away from 7.2 MHz.

Perhaps the 2nd harmonic issue can be solved by incorporating a trap filter for 6 MHz or a low pass filter cutting off at 4 MHz or so behind the VFO, what do you think? Or do you have a better idea for a mod? My experience designing or even modifying transceivers is very limited, as I have just demonstrated.

73 Ron de pa0rcl

Op 19-mrt-2009, om 17:20 heeft g6alu@... het volgende geschreven:

> Lets see how you did it Ron, I guess the VFO is now running at about
> 2.8 - 3MHz? Have you measured the second harmonic of the VFO?
>
> If succesfull it shouldn't be a problem to do a mod kit.
>
> Steve G6ALU
>
> >----Original Message----
> >From: pa0rcl@...

> >Date: 19/03/2009 13:45
> >To: <mkars80@...>
> >Subj: [mkars80] MKARS40 !
> >
> >Hello all,
> >
> >For those interested I can report here that I have successfully
> modified the MKARS80 into an MKARS40. It is a matter of changeing a
> few
> coils and capacitors. I sacrificed one of my three varactor tuned
> MKARS80s to undergo the transformation. It was an evening's job and
> not
> difficult to do.
> >If there is any interest I can describe how I did it and post it in
> the files section as a PDF, Steve permitting of course.
> >
> >73 Ron de pa0rcl
> >
> >
> >
> >------------------------------------
> >
> >Yahoo! Groups Links
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> >
>
> Get up to 50% off Norton Security - http://www.tiscali.co.uk/securepc
> --
>
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>

[Non-text portions of this message have been removed]

731. Re: [mkars80] MKARS40 !

Yahoo group: mkars80
Date: 2009-03-19 19:51:15 UTC
From: Liz & Tony Buckland
Topic: 726 Message: 731

Hello Ron,

Sounds good to me. Will it cover 7.00 - 7.30? as that is the coverage in this part of the world.

Thanks.

73 Tony ZL3HAM

At 02:45 20/03/2009, you wrote:

>Hello all,
>
>For those interested I can report here that I have successfully
>modified the MKARS80 into an MKARS40. It is a matter of changeing a
>few coils and capacitors. I sacrificed one of my three varactor
>tuned MKARS80s to undergo the transformation. It was an evening's
>job and not difficult to do.
>If there is any interest I can describe how I did it and post it in
>the files section as a PDF, Steve permitting of course.
>
>73 Ron de pa0rcl
>
>

[Non-text portions of this message have been removed]

732. Re: [mkars80] MKARS40 !

Yahoo group: mkars80
Date: 2009-03-19 19:52:56 UTC
From: Liz & Tony Buckland
Topic: 726 Message: 732

Hello Steve,

A mod kit would be a great idea, time permitting of course :-).

73 Tony ZL3HAM

At 05:20 20/03/2009, you wrote:

>Lets see how you did it Ron, I guess the VFO is now running at about
>2.8 - 3MHz? Have you measured the second harmonic of the VFO?
>
>If succesfull it shouldn't be a problem to do a mod kit.
>
>Steve G6ALU
>
> >----Original Message----
> >From: <mailto:pa0rcl%40planet.nl>pa0rcl@...
> >Date: 19/03/2009 13:45
> >To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
> >Subj: [mkars80] MKARS40 !
> >
> >Hello all,
> >
> >For those interested I can report here that I have successfully
>modified the MKARS80 into an MKARS40. It is a matter of changeing a few
>coils and capacitors. I sacrificed one of my three varactor tuned
>MKARS80s to undergo the transformation. It was an evening's job and not
>difficult to do.
> >If there is any interest I can describe how I did it and post it in
>the files section as a PDF, Steve permitting of course.
> >
> >73 Ron de pa0rcl
> >
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> >Yahoo! Groups Links
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>Get up to 50% off Norton Security -
><http://www.tiscali.co.uk/securepc>http://www.tiscali.co.uk/securepc
>_____

>
>

[Non-text portions of this message have been removed]

733. Re: [mkars80] MKARS40

Yahoo group: mkars80
Date: 2009-03-20 09:27:27 UTC
From: pa0rcl
Topic: 733 Message: 733

OK Steve, there is no hurry, at least not for me. I barely work on 40m but found it a challenge to try the mod. Besides I will be on holiday starting this weekend.

I changed the preset caps in the BPF in the TX driver and played with them but that did not make much difference, alas. Later today I will mail you a list of the L's and C's I have changed. Unfortunately I do not have an RF generator with sweep possibility or a spectrum analyser.

Another option is to change the VFO frequency to 5 MHz and the IF to 12 MHz, the 10 MHz second harmonic of the VFO can thus be filtered out better by the 7 MHz BPF than 5.9 MHz in the present situation. 12 MHz crystals are as easily available as 10 MHz ones. Another approach would be to make the IF 5 MHz (no crystal problem either) and the VFO 12 MHz. The second VFO harmonic problem would then certainly be solved, but we probably can not keep the VFO stable enough. Perhaps I will give this a try after my holiday. Meanwhile I will also think about a 20m mod.

Good luck with the CW adapter,

Ron de pa0rcl

Op 19-mrt-2009, om 23:02 heeft Steve Drury het volgende geschreven:

> Ron,
>
> I need to look at the BPF, it should be possible to make it tighter
> but the
> preset capacitors will then have to be adjusted... thats what they
> are there
> for!
>
> Before I look at this I need to do the instructions for the CW
> adapter.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <pa0rcl@...>
> To: <mkars80@...>
> Sent: Thursday, March 19, 2009 7:14 PM
> Subject: Re: [mkars80] MKARS40 !
>
> > Hello Steve,
> >

> > Indeed the VFO is running at 2.9 - 3.0 MHz, as the 40m band in the
> > Netherlands is limited to 7.0 - 7.1 MHz. There is no problem
> > extending it to 7.2 MHz, of course.
> > The alternative VFO frequency would have been 17 MHz, which is too
> > high in my opinion to keep the VFO stable enough, but I have not
> > tried it.
> > I have adapted the capacitors and the coils in the filters to 7 MHz.
> > Because the frequency doubled from 3,5 to 7 Mhz, I made both the
> caps
> > and coils half their previous value.
> > I have tested the receiver and the transmitter and they seem(ed) to
> > work well.
> >
> > After reading your post I went back to the shack to measure the
> VFO's
> > second harmonic with the limited means I have and I must say that
> > this component in my RF-output seems to be too strong indeed. For
> > instance if I transmit at 7.050 MHz, I can hear myself also at 5.900
> > MHz on another receiver. I had assumed that the ladder filter in the
> > driver stage of the transmitter and the filter towards the antenna
> > would filter this out, it probably does to some extent, but
> > apparently not enough. In the original MKARS80, the problem does not
> > exist because the second harmonic of the VFO is at around 7.2 MHz,
> > whereas the filters are probably tuned at around 3,6 MHz, i.e. far
> > enough away from 7.2 MHz.
> >
> > Perhaps the 2nd harmonic issue can be solved by incorporating a trap
> > filter for 6 MHz or a low pass filter cutting off at 4 MHz or so
> > behind the VFO, what do you think? Or do you have a better idea
> for a
> > mod? My experience designing or even modifying transceivers is very
> > limited, as I have just demonstrated.
> >
> > 73 Ron de pa0rcl
> >
> >
> >
> >
> > Op 19-mrt-2009, om 17:20 heeft g6alu@... het volgende
> > geschreven:
> >
> >> Lets see how you did it Ron, I guess the VFO is now running at
> about
> >> 2.8 - 3MHz? Have you measured the second harmonic of the VFO?
> >>
> >> If succesfull it shouldn't be a problem to do a mod kit.
> >>
> >> Steve G6ALU
> >>
> >> >----Original Message----

> >> >From: pa0rcl@...
> >> >Date: 19/03/2009 13:45
> >> >To: <mkars80@...>
> >> >Subj: [mkars80] MKARS40 !
> >> >
> >> >Hello all,
> >> >
> >> >For those interested I can report here that I have successfully
> >> modified the MKARS80 into an MKARS40. It is a matter of changeing a
> >> few
> >> coils and capacitors. I sacrificed one of my three varactor tuned
> >> MKARS80s to undergo the transformation. It was an evening's job and
> >> not
> >> difficult to do.
> >> >If there is any interest I can describe how I did it and post
> it in
> >> the files section as a PDF, Steve permitting of course.
> >> >
> >> >73 Ron de pa0rcl
> >> >
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> >> >-----------------------------------
> >> >
> >> >Yahoo! Groups Links
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> >> >
> >> Get up to 50% off Norton Security - http://www.tiscali.co.uk/
> securepc
> >> ____
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> >>
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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> ---
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.18/2009 - Release Date:
> 03/18/09
> 07:17:00
>
>
>

[Non-text portions of this message have been removed]

734. MKARS80 mods/additions

Yahoo group: mkars80
Date: 2009-03-21 20:59:04 UTC
From: Peter Wotherspoon
Topic: 734 Message: 734

Hi everyone.
Is there some place I can look at the updates to the xcvr, or do I have to read all the emails.
I particularly want CW (OK it was sort of promised to me).
Thanks
Peter
VE3GYY

[Non-text portions of this message have been removed]

735. Re: [mkars80] MKARS80 mods/additions

Yahoo group: mkars80
Date: 2009-03-21 21:08:53 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 734   Message: 735

The CW adaptor should be available within the next couple of weeks.
Some mod details have been posted in the files section of this group.

Peter Wotherspoon wrote:
> Hi everyone.
> Is there some place I can look at the updates to the xcvr, or do I have to read all the emails.
> I particularly want CW (OK it was sort of promised to me).
> Thanks
> Peter
> VE3GYY
>

--
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
Nigel A. Gunn. G8IFF W8IFF (was KC8NHF)
1865 El Camino Drive, Xenia, OH 45385-1115, USA 937 825 5032
e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>

736. Re: [mkars80] MKARS80 mods/additions

Yahoo group: mkars80
Date: 2009-03-21 21:14:59 UTC
From: Steve Drury
Topic: 734   Message: 736

CW adapter is on its way, I have the components all I have to do is finish
the manual!

Steve G6ALU

----- Original Message -----
From: "Nigel Gunn G8IFF/W8IFF" <nigel@...>
To: <mkars80@...>
Sent: Saturday, March 21, 2009 9:08 PM
Subject: Re: [mkars80] MKARS80 mods/additions

> The CW adaptor should be available within the next couple of weeks.
> Some mod details have been posted in the files section of this group.
>
> Peter Wotherspoon wrote:
>> Hi everyone.
>> Is there some place I can look at the updates to the xcvr, or do I have
>> to read all the emails.
>> I particularly want CW (OK it was sort of promised to me).
>> Thanks
>> Peter
>> VE3GYY
>>
>
> --
> <><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
> Nigel A. Gunn. G8IFF W8IFF (was KC8NHF)
> 1865 El Camino Drive, Xenia, OH 45385-1115, USA 937 825 5032
> e-mail nigel@... www http://www.ngunn.net
> Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pig #385,
> Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS,
> ALC
> <><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
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>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com

Version: 8.0.238 / Virus Database: 270.11.22/2015 - Release Date: 03/20/09 19:01:00

737. Different Versions MKARS 80

Yahoo group: mkars80
Date: 2009-03-22 21:25:47 UTC
From: JEREMY CARVILL
Topic: 737 Message: 737

Hi Steve,

Thanks for the kit, received last week. I've opened it up and had a good look. I also printed off the instructions from the Yahoo Group "files" section. The manual has V.1.2 printed on the bottom right corner of each of the 26 pages but the 6 bags of components refer to Version 3. Is this correct or have I not printed off the latest version instruction manual?

regards,
Jem
Worcester UK

[Non-text portions of this message have been removed]

738. Re: [mkars80] Different Versions MKARS 80

Yahoo group: mkars80
Date: 2009-03-22 21:59:16 UTC
From: Steve Drury
Topic: 737 Message: 738

Jeremy,

I suspect you got this from the MKARS website, unfortunately the website hasn't been updated in a while. The link to the latest manual is on the box label - here is the direct link to the download page http://myweb.tiscali.co.uk/radiokits/mkars80page.html the manual you want is V1.3.

Regards,
Steve G6ALU

----- Original Message -----
From: "JEREMY CARVILL" <jerrybloodyvee@...>
To: <mkars80@...>
Sent: Sunday, March 22, 2009 9:25 PM
Subject: [mkars80] Different Versions MKARS 80

Hi Steve,

Thanks for the kit, received last week. I've opened it up and had a good look. I also printed off the instructions from the Yahoo Group "files" section. The manual has V.1.2 printed on the bottom right corner of each of the 26 pages but the 6 bags of components refer to Version 3. Is this correct or have I not printed off the latest version instruction manual?

regards,
Jem
Worcester UK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09 17:58:00

739. Re: [mkars80] Different Versions MKARS 80

Yahoo group: mkars80
Date: 2009-03-22 22:12:16 UTC
From: Steve Drury
Topic: 737 Message: 739

I should have read your mail properly! I will update the files section with
a new version.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Sunday, March 22, 2009 9:59 PM
Subject: Re: [mkars80] Different Versions MKARS 80

> Jeremy,
>
> I suspect you got this from the MKARS website, unfortunately the website
> hasn't been updated in a while. The link to the latest manual is on the
> box
> label - here is the direct link to the download page
> http://myweb.tiscali.co.uk/radiokits/mkars80page.html the manual you want
> is
> V1.3.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "JEREMY CARVILL" <jerrybloodyvee@...>
> To: <mkars80@...>
> Sent: Sunday, March 22, 2009 9:25 PM
> Subject: [mkars80] Different Versions MKARS 80
>
>
> Hi Steve,
>
> Thanks for the kit, received last week. I've opened it up and had a good
> look. I also printed off the instructions from the Yahoo Group "files"
> section. The manual has V.1.2 printed on the bottom right corner of each
> of
> the 26 pages but the 6 bags of components refer to Version 3. Is this
> correct or have I not printed off the latest version instruction manual?
>
> regards,
> Jem
> Worcester UK
>
>
>

>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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> --
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09
> 17:58:00
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09
17:58:00

740. Re: [mkars80] Different Versions MKARS 80

Yahoo group: mkars80
Date: 2009-03-23 07:44:28 UTC
From: JEREMY CARVILL
Topic: 737 Message: 740

Thanks for your rapid response Steve. But before I cut down another rain forest with the 26 pages I have already printed off, are there any differences between the two versions, ie., can I still successfully build the transciever with the version 1.2 instructions, or are there just subtle changes which I could just alter on the copy I already have?

regards,
Jem
Worcester

--- On Sun, 22/3/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Different Versions MKARS 80
To: mkars80@...
Date: Sunday, 22 March, 2009, 10:12 PM

I should have read your mail properly! I will update the files section with
a new version.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@tiscali. co.uk>
To: <mkars80@yahoogroups .co.uk>
Sent: Sunday, March 22, 2009 9:59 PM
Subject: Re: [mkars80] Different Versions MKARS 80

> Jeremy,
>
> I suspect you got this from the MKARS website, unfortunately the website
> hasn't been updated in a while. The link to the latest manual is on the
> box
> label - here is the direct link to the download page
> http://myweb. tiscali.co. uk/radiokits/ mkars80page. html the manual you want
> is
> V1.3.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "JEREMY CARVILL" <jerrybloodyvee@ btinternet. com>
> To: <mkars80@yahoogroups .co.uk>
> Sent: Sunday, March 22, 2009 9:25 PM
> Subject: [mkars80] Different Versions MKARS 80
>
>

> Hi Steve,
>
> Thanks for the kit, received last week. I've opened it up and had a good
> look. I also printed off the instructions from the Yahoo Group "files"
> section. The manual has V.1.2 printed on the bottom right corner of each
> of
> the 26 pages but the 6 bags of components refer to Version 3. Is this
> correct or have I not printed off the latest version instruction manual?
>
> regards,
> Jem
> Worcester UK
>
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> [Non-text portions of this message have been removed]
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> No virus found in this incoming message.
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Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09

17:58:00

[Non-text portions of this message have been removed]

741. Board issues

Yahoo group: mkars80
Date: 2009-03-23 12:28:41 UTC
From: nakor1
Topic: 741 Message: 741

Hi Steve,

I had a wee problem with Resistor-R62. It wasnt in tight to the board so I removed it to reposition it. Unfortunately I didnt count on needing 3 hands and the solder set in the holes. I got a smaller iron and managed to clear the holes, but took the edges wit it, so now have nothing to solder onto except to burnt holes. I assume this will cause an issue later so havent added anything else to the board. Any ideas on a workaround will be greatly appreciated.

Also while I'm on I was winding the toroids T1 & T3-5t & 5t 38 swg. I think I have misread the instructions and twisted two bits of wire & put it thru 5 turns on each side, I think now it may only be one wire from each end with 5 turns as opposed to two wires twisted from both ends - the trifiliar ones were clear enough. This only came to light when I tried two bits of wire twisted for the big toroid & I could barely get it through - never mind trying another twisted pair from the other end. If that makes sense!

Cheers Alan

742. Re: [mkars80] Board issues

Yahoo group: mkars80
Date: 2009-03-23 13:13:12 UTC
From: Larry Critchfield
Topic: 741 Message: 742

Hi Alan,
I'm not Steve but I will help you on R62
1st get a new resister, I think it is a 10 ohm brown black black
1 end goes to ground, scrap a small spot on the ground plane (back side of board),
get it nice and shinny. Use some sanding paper to get it clean, apply some flux and tin the spot.
Put R62 into it holes and solder the ground to your new tinned spot.

The other end goes to C82, install it, trim and bend the lead towards R62
Try to wrap the lead right around the lead of R62, solder it and your set

Hope this helps, May your junk box be full of spare 10 ohm resisters
Larry
WS3Z

On Mon, Mar 23, 2009 at 8:28 AM, nakor1 <moosifer@...> wrote:

> Hi Steve,
>
> I had a wee problem with Resistor-R62. It wasnt in tight to the board so I
> removed it to reposition it. Unfortunately I didnt count on needing 3 hands
> and the solder set in the holes. I got a smaller iron and managed to clear
> the holes, but took the edges wit it, so now have nothing to solder onto
> except to burnt holes. I assume this will cause an issue later so havent
> added anything else to the board. Any ideas on a workaround will be greatly
> appreciated.
>
> Also while I'm on I was winding the toroids T1 & T3-5t & 5t 38 swg. I think
> I have misread the instructions and twisted two bits of wire & put it thru 5
> turns on each side, I think now it may only be one wire from each end with 5
> turns as opposed to two wires twisted from both ends - the trifiliar ones
> were clear enough. This only came to light when I tried two bits of wire
> twisted for the big toroid & I could barely get it through - never mind
> trying another twisted pair from the other end. If that makes sense!
>
> Cheers Alan
>
>
>

[Non-text portions of this message have been removed]

743. Re: [mkars80] Different Versions MKARS 80

Yahoo group: mkars80
Date: 2009-03-23 13:58:36 UTC
From: g6alu@tiscali.co.uk
Topic: 737 Message: 743

Save the rain forrest!

From memory the only changes are:
1nF ceramics now used instead of polycarbonate capacitors in VFO,
changes to firmware (no need to download another manual for this) and
order of alignment changed; setting of display bias now the first thing
after display is fitted.

Steve G6ALU

>----Original Message----
>From: jerrybloodyvee@...
>Date: 23/03/2009 7:44
>To: <mkars80@...>
>Subj: Re: [mkars80] Different Versions MKARS 80
>
>Thanks for your rapid response Steve. But before I cut down another
rain forest with the 26 pages I have already printed off, are there any
differences between the two versions, ie., can I still successfully
build the transciever with the version 1.2 instructions, or are there
just subtle changes which I could just alter on the copy I already
have?
>
>regards,
>Jem
>Worcester
>
>--- On Sun, 22/3/09, Steve Drury <g6alu@...> wrote:
>
>From: Steve Drury <g6alu@tiscali.co.uk>
>Subject: Re: [mkars80] Different Versions MKARS 80
>To: mkars80@yahoogroups.co.uk
>Date: Sunday, 22 March, 2009, 10:12 PM
>
>
>
>
>
>
>I should have read your mail properly! I will update the files
section with
>a new version.
>
>Steve G6ALU
>
>----- Original Message -----

>From: "Steve Drury" <g6alu@tiscali. co.uk>
>To: <mkars80@yahoogroups .co.uk>
>Sent: Sunday, March 22, 2009 9:59 PM
>Subject: Re: [mkars80] Different Versions MKARS 80
>
>> Jeremy,
>>
>> I suspect you got this from the MKARS website, unfortunately the
website
>> hasn't been updated in a while. The link to the latest manual is on
the
>> box
>> label - here is the direct link to the download page
>> http://myweb. tiscali.co. uk/radiokits/ mkars80page. html the
manual you want
>> is
>> V1.3.
>>
>> Regards,
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "JEREMY CARVILL" <jerrybloodyvee@ btinternet. com>
>> To: <mkars80@yahoogroups .co.uk>
>> Sent: Sunday, March 22, 2009 9:25 PM
>> Subject: [mkars80] Different Versions MKARS 80
>>
>>
>> Hi Steve,
>>
>> Thanks for the kit, received last week. I've opened it up and had a
good
>> look. I also printed off the instructions from the Yahoo Group
"files"
>> section. The manual has V.1.2 printed on the bottom right corner of
each
>> of
>> the 26 pages but the 6 bags of components refer to Version 3. Is
this
>> correct or have I not printed off the latest version instruction
manual?
>>
>> regards,
>> Jem
>> Worcester UK
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>> [Non-text portions of this message have been removed]

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Get up to 50% off Norton Security - http://www.tiscali.co.uk/securepc
_____

744. MKARS80 - wow

Yahoo group: mkars80
Date: 2009-03-23 15:27:30 UTC
From: philg7bzd@btinternet.com
Topic: 744 Message: 744

Hi Steve and gang.

Cheque was posted last week, and as I checked my calendar the postman rang the door bell. Now thats what I call a fast delivery.

Printed the latest issue instructions from the web, had already read them a couple of times, thats why I sent my cheque off.

Well a couple of hours later I have all of bag 1 on the board, I even have a couple of spare 4k7 resistors?
Yes I have cross checked everything....

Very impressed so far.

Regards

Phil G7BZD

745. MKARS 80 on Air

Yahoo group: mkars80
Date: 2009-03-23 16:33:36 UTC
From: j.w.g.g3you@btinternet.com
Topic: 745 Message: 745

Very pleased with the kit. Instructions were foolproof.

Took just a couple of evenings to build and test

Works fine first a local contact with my son to see all was ok.

Next day a 5/9 contact during the day with a station in Yorkshire not bad from Kent with just 66 end fed wire.

I am looking forward to building the CW option.

73

John

746. Re: [mkars80] MKARS80 - wow

Yahoo group: mkars80
Date: 2009-03-23 18:46:46 UTC
From: Steve Drury
Topic: 744 Message: 746

Hi Phil,

Lets hope you don't find two of something missing!

You may find a spare 100nF capacitor, this is normal just in case we
miscounted the 51 capacitors.

Steve G6ALU

----- Original Message -----
From: <philg7bzd@...>
To: <mkars80@...>
Sent: Monday, March 23, 2009 3:27 PM
Subject: [mkars80] MKARS80 - wow

> Hi Steve and gang.
>
> Cheque was posted last week, and as I checked my calendar the postman rang
> the door bell. Now thats what I call a fast delivery.
>
> Printed the latest issue instructions from the web, had already read them
> a couple of times, thats why I sent my cheque off.
>
> Well a couple of hours later I have all of bag 1 on the board, I even have
> a couple of spare 4k7 resistors?
> Yes I have cross checked everything....
>
> Very impressed so far.
>
> Regards
>
> Phil G7BZD
>
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09

17:58:00

747. Re: [mkars80] MKARS80 - wow

Yahoo group: mkars80
Date: 2009-03-23 21:32:15 UTC
From: PHIL YATES
Topic: 744 Message: 747

Hi Steve.

Phew... Thought i'd missed a cap. Yes got one spare.
Started bag 4. But the eyes are playing up, so its time for a rest.
Hope to finish the rest tomorrow. if the station manager allows me.

Regards
Phil G7BZD

--- On Mon, 23/3/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] MKARS80 - wow
To: mkars80@...
Date: Monday, 23 March, 2009, 6:46 PM

Hi Phil,

Lets hope you don't find two of something missing!

You may find a spare 100nF capacitor, this is normal just in case we
miscounted the 51 capacitors.

Steve G6ALU

----- Original Message -----
From: <philg7bzd@btinterne t.com>
To: <mkars80@yahoogroups .co.uk>
Sent: Monday, March 23, 2009 3:27 PM
Subject: [mkars80] MKARS80 - wow

> Hi Steve and gang.
>
> Cheque was posted last week, and as I checked my calendar the postman rang
> the door bell. Now thats what I call a fast delivery.
>
> Printed the latest issue instructions from the web, had already read them
> a couple of times, thats why I sent my cheque off.
>
> Well a couple of hours later I have all of bag 1 on the board, I even have
> a couple of spare 4k7 resistors?
> Yes I have cross checked everything.. ..
>
> Very impressed so far.
>
> Regards
>

> Phil G7BZD
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09
17:58:00

[Non-text portions of this message have been removed]

748. I LOVE THIS RADIO

Yahoo group: mkars80
Date: 2009-03-23 21:45:06 UTC
From: mark2w0jmk
Topic: 748 Message: 748

Hi all well what can i say i have been playing with the radio now for a couple of days and so far the best contact i have had was with 9A5Y (1050 miles away) and he gave me a 5/5 report.
now i am waiting for the lads in MKARS to make one for 20 meters. Steve can you tell me if you can supply a display with a back light i have seen one or two on ebay but i don't now if they will fit Mark 2W0JMK

749. Re: [mkars80] MKARS80 - wow

Yahoo group: mkars80
Date: 2009-03-23 22:22:31 UTC
From: Steve Drury
Topic: 744 Message: 749

Take your time Phil, one thing I have noticed is its those who rush who have problems!

Steve G6ALU

----- Original Message -----
From: "PHIL YATES" <philg7bzd@...>
To: <mkars80@...>
Sent: Monday, March 23, 2009 9:32 PM
Subject: Re: [mkars80] MKARS80 - wow

Hi Steve.

Phew... Thought i'd missed a cap. Yes got one spare.
Started bag 4. But the eyes are playing up, so its time for a rest.
Hope to finish the rest tomorrow. if the station manager allows me.

Regards
Phil G7BZD

--- On Mon, 23/3/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] MKARS80 - wow
To: mkars80@...
Date: Monday, 23 March, 2009, 6:46 PM

Hi Phil,

Lets hope you don't find two of something missing!

You may find a spare 100nF capacitor, this is normal just in case we miscounted the 51 capacitors.

Steve G6ALU

----- Original Message -----
From: <philg7bzd@btinterne t.com>
To: <mkars80@yahoogroups .co.uk>
Sent: Monday, March 23, 2009 3:27 PM
Subject: [mkars80] MKARS80 - wow

> Hi Steve and gang.
>
> Cheque was posted last week, and as I checked my calendar the postman rang
> the door bell. Now thats what I call a fast delivery.
>
> Printed the latest issue instructions from the web, had already read them

> a couple of times, thats why I sent my cheque off.
>
> Well a couple of hours later I have all of bag 1 on the board, I even have
> a couple of spare 4k7 resistors?
> Yes I have cross checked everything.. ..
>
> Very impressed so far.
>
> Regards
>
> Phil G7BZD
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09
17:58:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.24/2018 - Release Date: 03/23/09
06:52:00

750. Re: [mkars80] I LOVE THIS RADIO

Yahoo group: mkars80
Date: 2009-03-23 22:27:51 UTC
From: Steve Drury
Topic: 748 Message: 750

Mark,

I have some displays with backlight although they are not cheap as I have only purchased a few, you will also find that you will need a new case and potentiometers as the displays are thicker.

Displays are ?10 each including post to the UK.

Steve G6ALU

----- Original Message -----
From: "mark2w0jmk" <mw3hqt@...>
To: <mkars80@...>
Sent: Monday, March 23, 2009 9:45 PM
Subject: [mkars80] I LOVE THIS RADIO

> Hi all well what can i say i have been playing with the radio now for a
> couple of days and so far the best contact i have had was with 9A5Y (1050
> miles away) and he gave me a 5/5 report.
> now i am waiting for the lads in MKARS to make one for 20 meters. Steve
> can you tell me if you can supply a display with a back light i have seen
> one or two on ebay but i don't now if they will fit Mark 2W0JMK
>
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> Yahoo! Groups Links
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751. Re: I LOVE THIS RADIO

Yahoo group: mkars80
Date: 2009-03-23 23:08:54 UTC
From: mark2w0jmk
Topic: 748 Message: 751

Hi Steve ok thanks for the info can you supply all the bits and if so how much for it all plus the p&p
from mark 2w0jmk

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Mark,
>
> I have some displays with backlight although they are not cheap as I have
> only purchased a few, you will also find that you will need a new case and
> potentiometers as the displays are thicker.
>
> Displays are £10 each including post to the UK.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "mark2w0jmk" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Monday, March 23, 2009 9:45 PM
> Subject: [mkars80] I LOVE THIS RADIO
>
>
> > Hi all well what can i say i have been playing with the radio now for a
> > couple of days and so far the best contact i have had was with 9A5Y (1050
> > miles away) and he gave me a 5/5 report.
> > now i am waiting for the lads in MKARS to make one for 20 meters. Steve
> > can you tell me if you can supply a display with a back light i have seen
> > one or two on ebay but i don't now if they will fit Mark 2W0JMK
> >
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752. Re: [mkars80] Board issues

Yahoo group: mkars80
Date: 2009-03-24 18:46:13 UTC
From: Steve Drury
Topic: 741 Message: 752

Larry,

Are you OK now, do you need a new resistor (or anything else)?

I have loaded a copy of the PCB trackside to the files section so if people think they have broken a track they can check.

Steve G6ALU

----- Original Message -----
From: "Larry Critchfield" <ws3z711@...>
To: <mkars80@...>
Sent: Monday, March 23, 2009 1:13 PM
Subject: Re: [mkars80] Board issues

> Hi Alan,
> I'm not Steve but I will help you on R62
> 1st get a new resister, I think it is a 10 ohm brown black black
> 1 end goes to ground, scrap a small spot on the ground plane (back side of
> board),
> get it nice and shinny. Use some sanding paper to get it clean, apply some
> flux and tin the spot.
> Put R62 into it holes and solder the ground to your new tinned spot.
>
> The other end goes to C82, install it, trim and bend the lead towards R62
> Try to wrap the lead right around the lead of R62, solder it and your set
>
> Hope this helps, May your junk box be full of spare 10 ohm resisters
> Larry
> WS3Z
>
>
>
>
>
>
> On Mon, Mar 23, 2009 at 8:28 AM, nakor1 <moosifer@...> wrote:
>
>> Hi Steve,
>>
>> I had a wee problem with Resistor-R62. It wasnt in tight to the board so
>> I
>> removed it to reposition it. Unfortunately I didnt count on needing 3
>> hands
>> and the solder set in the holes. I got a smaller iron and managed to
>> clear

>> the holes, but took the edges wit it, so now have nothing to solder onto
>> except to burnt holes. I assume this will cause an issue later so havent
>> added anything else to the board. Any ideas on a workaround will be
>> greatly
>> appreciated.
>>
>> Also while I'm on I was winding the toroids T1 & T3-5t & 5t 38 swg. I
>> think
>> I have misread the instructions and twisted two bits of wire & put it
>> thru 5
>> turns on each side, I think now it may only be one wire from each end
>> with 5
>> turns as opposed to two wires twisted from both ends - the trifiliar ones
>> were clear enough. This only came to light when I tried two bits of wire
>> twisted for the big toroid & I could barely get it through - never mind
>> trying another twisted pair from the other end. If that makes sense!
>>
>> Cheers Alan
>>
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>
> [Non-text portions of this message have been removed]
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09
17:58:00

753. G8DIU Mods

Yahoo group: mkars80
Date: 2009-03-24 22:08:45 UTC
From: Peter Wotherspoon
Topic: 753 Message: 753

Can someone give me some description of what the G8DIU mod does?
Where the output goes?
Is that a pot on the 8 volt lead?
Or a reference to an earlier email?
Thanks
Peter
VE3GYY

[Non-text portions of this message have been removed]

754. Q13 HIGH TEMP

Yahoo group: mkars80
Date: 2009-03-24 22:21:17 UTC
From: mark2w0jmk
Topic: 754 Message: 754

Hi all i have started to have an issue with my mkars80 the huff and puff will not hold the set on frequency. i have had a quick look at the internals and Q13 seems to be very hot is this transistor part of the huff and puff circuit.
mark 2w0jmk

755. Re: VFO Mod parts.

Yahoo group: mkars80
Date: 2009-03-25 11:54:09 UTC
From: Peter Carnegie
Topic: 723 Message: 755

Hi Mike

AK Modul Bus has the 1SV149 30~540pF varactor for around Euro 2.

See http://translate.google.co.uk/translate?hl=en&sl=de&u=http://www.ak-modul-bus.de/&ei=ZBrKSarIHMa2jAfuroHOAw&sa=X&oi=translate&resnum=1&ct=result&prev=/search%3Fq%3Dak%2Bmodulbus%26hl%3Den%26num%3D100

I bought some using Paypal, arrived within 4 days

Peter

--- In mkars80@yahoogroups.co.uk, Mikael Czerski <arcticfox@...> wrote:
>
>
> Hi,
>
> Does anyone know where one can get MVAM109 here in the UK? and what it
> should be priced at?
>
> Another thing has anyone attempted doing a VFO mod using 5W 15V Zener
> diodes or similar?
>
> - Mike
>
>
>
>
> - Mikael Czerski -
> Phone: +44 7879424613 (celluar)
> Hamradio: M0RBD (LA6IMA)
>
> -----BEGIN GEEK CODE BLOCK-----
> Version: 3.1
> GCS/CM/CC/E/G/IT/MC/M/MU/S d(--)@>-- s:(++)>++ a- C++++
> UBLUAVHISCX*---(on)>++++ P+++++>+++++ L>++++ E>--- W>+++ N>++++ o K--@
> w$>---$ O>+ M>++ V PS PE Y PGP>++++ t 5 X>++ R>+++ tv>+ b>++++ DI D>++ G>++
> e>++ h>++ r>++ y
> ------END GEEK CODE BLOCK------
>

756. Re: [mkars80] Q13 HIGH TEMP

Yahoo group: mkars80
Date: 2009-03-25 21:33:43 UTC
From: Steve Drury
Topic: 754 Message: 756

Mark,
I have checked Q13 in my prototype and it just gets warm - if yours gets too hot to touch check its bias resistors.

What version is your kit (what version instructions) and what is the version of your micro (displayed at turn on).

Regards,
Steve G6ALU

----- Original Message -----
From: "mark2w0jmk" <mw3hqt@...>
To: <mkars80@...>
Sent: Tuesday, March 24, 2009 10:21 PM
Subject: [mkars80] Q13 HIGH TEMP

> Hi all i have started to have an issue with my mkars80 the huff and puff
> will not hold the set on frequency. i have had a quick look at the
> internals and Q13 seems to be very hot is this transistor part of the huff
> and puff circuit.
> mark 2w0jmk
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.24/2018 - Release Date: 03/23/09 06:52:00

757. Re: Q13 HIGH TEMP

Yahoo group: mkars80
Date: 2009-03-25 22:17:43 UTC
From: mark2w0jmk
Topic: 754 Message: 757

hi Steve thanks for the reply the radio version is 2.4 Q13 is quite worm you can only just keep the back of your finger on it.
i have checked the voltages going into Q13 and they do mach the voltage list you provided. the radio has been on tonight for a few hours and i have had three qso's on it and it seems to be behaving itself tonight thanks from mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Mark,
> I have checked Q13 in my prototype and it just gets warm - if yours gets too
> hot to touch check its bias resistors.
>
> What version is your kit (what version instructions) and what is the version
> of your micro (displayed at turn on).
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "mark2w0jmk" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Tuesday, March 24, 2009 10:21 PM
> Subject: [mkars80] Q13 HIGH TEMP
>
>
> > Hi all i have started to have an issue with my mkars80 the huff and puff
> > will not hold the set on frequency. i have had a quick look at the
> > internals and Q13 seems to be very hot is this transistor part of the huff
> > and puff circuit.
> > mark 2w0jmk
> >
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> >
> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.24/2018 - Release Date: 03/23/09
> 06:52:00
>

758. Re: [mkars80] Board issues

Yahoo group: mkars80
Date: 2009-03-27 00:03:35 UTC
From: Larry Critchfield
Topic: 741 Message: 758

Hi Steve,
Yes, I am OK. I was telling Alan how to fix his problem although the email
was addressed to you.
I think he needs a new resister unless he found one locally.
He does need some advice on the coils
Thanks Steve
You are really on top of your product!!!
Hope to work you one day
73's

On Tue, Mar 24, 2009 at 2:46 PM, Steve Drury <g6alu@...> wrote:

> Larry,
>
> Are you OK now, do you need a new resistor (or anything else)?
>
> I have loaded a copy of the PCB trackside to the files section so if people
>
> think they have broken a track they can check.
>
> Steve G6ALU
>
>
> ----- Original Message -----
> From: "Larry Critchfield" <ws3z711@... <ws3z711%40gmail.com>>
> To: <mkars80@... <mkars80%40yahoogroups.co.uk>>
> Sent: Monday, March 23, 2009 1:13 PM
> Subject: Re: [mkars80] Board issues
>
> > Hi Alan,
> > I'm not Steve but I will help you on R62
> > 1st get a new resister, I think it is a 10 ohm brown black black
> > 1 end goes to ground, scrap a small spot on the ground plane (back side
> of
> > board),
> > get it nice and shinny. Use some sanding paper to get it clean, apply
> some
> > flux and tin the spot.
> > Put R62 into it holes and solder the ground to your new tinned spot.
> >
> > The other end goes to C82, install it, trim and bend the lead towards R62
> > Try to wrap the lead right around the lead of R62, solder it and your set
> >
> > Hope this helps, May your junk box be full of spare 10 ohm resisters
> > Larry

> > WS3Z
> >
> >
> >
> >
> >
> >
> > On Mon, Mar 23, 2009 at 8:28 AM, nakor1 <moosifer@...<moosifer%40madasafish.com>>
> wrote:
> >
> >> Hi Steve,
> >>
> >> I had a wee problem with Resistor-R62. It wasnt in tight to the board so
> >
> >> I
> >> removed it to reposition it. Unfortunately I didnt count on needing 3
> >> hands
> >> and the solder set in the holes. I got a smaller iron and managed to
> >> clear
> >> the holes, but took the edges wit it, so now have nothing to solder onto
> >> except to burnt holes. I assume this will cause an issue later so havent
> >> added anything else to the board. Any ideas on a workaround will be
> >> greatly
> >> appreciated.
> >>
> >> Also while I'm on I was winding the toroids T1 & T3-5t & 5t 38 swg. I
> >> think
> >> I have misread the instructions and twisted two bits of wire & put it
> >> thru 5
> >> turns on each side, I think now it may only be one wire from each end
> >> with 5
> >> turns as opposed to two wires twisted from both ends - the trifiliar
> ones
> >> were clear enough. This only came to light when I tried two bits of wire
> >> twisted for the big toroid & I could barely get it through - never mind
> >> trying another twisted pair from the other end. If that makes sense!
> >>
> >> Cheers Alan
> >>
> >>
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> > [Non-text portions of this message have been removed]
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> >
> > Yahoo! Groups Links

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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.23/2016 - Release Date: 03/21/09
> 17:58:00
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[Non-text portions of this message have been removed]

759. Build Progress

Yahoo group: mkars80
Date: 2009-03-27 17:57:03 UTC
From: Dean Davis
Topic: 759 Message: 759

I have been building kits for the past 10 years or so and I must say that the folks who designed this little jewel and the ones that kitted did an excellent job. This is the best kit that I have ever built and I wish others would follow in their footsteps.

So my hat off to everyone.

Dean Davis, N7XG

p.s. I can hardly wait to get this on the air.

760. Smoke Test

Yahoo group: mkars80
Date: 2009-03-30 15:12:25 UTC
From: Dean Davis
Topic: 760 Message: 760

I have completed the build and now testing and I seem to have a big problem.

1) The voltage tests on R34 and and VR2 are right on the dot (source voltage is about 12.5, no microphone hooked up).

However with an antenna hooked up:

1) I have no RF gain (i.e. no audio)

2) Turning the tune button does nothing

3) If I touch Q6 I receive AM boardcast

4) If I touch the LM386 I get a loud hum

5) I have started going through the voltage tests and several seem a bit high

6) I have the PIC installed, but not the display

Dean, N7XG

761. Re: [mkars80] Smoke Test

Yahoo group: mkars80
Date: 2009-03-30 15:24:51 UTC
From: DAVID CLENCH
Topic: 760 Message: 761

Hi

I had a very similar problem to the one you describe and it was because I had not used enough heat to melt the insulation when soldering the coils to the pcb.

Hope this helps.

73

Dave G0BVV

From: Dean Davis <dean@...>
To: mkars80@yahoogroups.co.uk
Sent: Monday, 30 March, 2009 4:12:25 PM
Subject: [mkars80] Smoke Test

I have completed the build and now testing and I seem to have a big problem.

1) The voltage tests on R34 and and VR2 are right on the dot (source voltage is about 12.5, no microphone hooked up).

However with an antenna hooked up:

1) I have no RF gain (i.e. no audio)

2) Turning the tune button does nothing

3) If I touch Q6 I receive AM boardcast

4) If I touch the LM386 I get a loud hum

5) I have started going through the voltage tests and several seem a bit high

6) I have the PIC installed, but not the display

Dean, N7XG

[Non-text portions of this message have been removed]

762. Re: [mkars80] Smoke Test

Yahoo group: mkars80
Date: 2009-03-30 15:46:24 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 760 Message: 762

You use the heat and strip/tin the wires BEFORE you put them anywhere near the board.

DAVID CLENCH wrote:
> Hi
>
> I had a very similar problem to the one you describe and it was because I had not used enough heat to melt the insulation when soldering the coils to the pcb.
>
> Hope this helps.
>
> 73
>
> Dave G0BVV
>
>
>
>
> _____
> From: Dean Davis <dean@...>
> To: mkars80@...
> Sent: Monday, 30 March, 2009 4:12:25 PM
> Subject: [mkars80] Smoke Test
>
>
> I have completed the build and now testing and I seem to have a big problem.
>
> 1) The voltage tests on R34 and and VR2 are right on the dot (source voltage is about 12.5, no microphone hooked up).
>
> However with an antenna hooked up:
>
> 1) I have no RF gain (i.e. no audio)
>
> 2) Turning the tune button does nothing
>
> 3) If I touch Q6 I receive AM boardcast
>
> 4) If I touch the LM386 I get a loud hum
>
> 5) I have started going through the voltage tests and several seem a bit high
>
> 6) I have the PIC installed, but not the display
>
> Dean, N7XG
>

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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International
#385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC, GCARES, XWARN

763. TX audio in headphones

Yahoo group: mkars80
Date: 2009-03-30 15:58:10 UTC
From: ki4mmm
Topic: 763 Message: 763

I recently finished my build and everything (tuning, RX audio) works great except that I cannot get any TX power out, and I hear my microphone audio in my headphones when I key up. Is there an common boo-boo that results in this? I'm thinking I may have a short in T5 (but would like to hear some ideas first, before rewinding it). Maybe I have a problem with Q3 and TX voltage keying, but again, I wanted to check and see if there is a well-known goof-up.

Greg
ki4mmm

764. Re: [mkars80] Smoke Test

Yahoo group: mkars80
Date: 2009-03-30 16:12:16 UTC
From: Dean Davis
Topic: 760 Message: 764

OK,

I will try that. I pre-tinned all of my couls before I installed them. It still does not explain whay I do not have any RF gain.

Normal
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false
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false

MicrosoftInternetExplorer4

Normal
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false
false
false

MicrosoftInternetExplorer4

D2
Dean Davis (N7XG)

Alpine Software

www.alpineso ft.com

From: "DAVID CLENCH" <david.clench@...>
Sent: Monday, March 30, 2009 8:52 AM
To: mkars80@...
Subject: Re: [mkars80] Smoke Test

Hi

I had a very similar problem to the one you describe and it was because I had not used enough heat to melt the insulation when soldering the coils to the pcb.

Hope this helps.

73

Dave G0BVV

From: Dean Davis <dean@...>

To: mkars80@...

Sent: Monday, 30 March, 2009 4:12:25 PM

Subject: [mkars80] Smoke Test

I have completed the build and now testing and I seem to have a big problem.

1) The voltage tests on R34 and and VR2 are right on the dot (source voltage is about 12.5, no microphone hooked up).

However with an antenna hooked up:

1) I have no RF gain (i.e. no audio)

2) Turning the tune button does nothing

3) If I touch Q6 I receive AM boardcast

4) If I touch the LM386 I get a loud hum

5) I have started going through the voltage tests and several seem a bit high

6) I have the PIC installed, but not the display

Dean, N7XG

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

765. Re: [mkars80] TX audio in headphones

Yahoo group: mkars80
Date: 2009-03-30 21:34:27 UTC
From: Steve Drury
Topic: 763 Message: 765

No common TX boo boo I know of; first check all the transistor voltages in TX (just in case there is something in the wrong place) then check to transformers are wound correctly and the enamel is removed from the terminations when they were soldered.

Hope theis helps?

Steve G6ALU

----- Original Message -----
From: "ki4mmm" <gderda@...>
To: <mkars80@...>
Sent: Monday, March 30, 2009 4:58 PM
Subject: [mkars80] TX audio in headphones

>I recently finished my build and everything (tuning, RX audio) works great
>except that I cannot get any TX power out, and I hear my microphone audio
>in my headphones when I key up. Is there an common boo-boo that results in
>this? I'm thinking I may have a short in T5 (but would like to hear some
>ideas first, before rewinding it). Maybe I have a problem with Q3 and TX
>voltage keying, but again, I wanted to check and see if there is a
>well-known goof-up.
>
> Greg
> ki4mmm
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> ------------------------------------
>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date: 03/28/09 07:16:00

766. Re: [mkars80] Smoke Test

Yahoo group: mkars80
Date: 2009-03-30 21:36:57 UTC
From: Steve Drury
Topic: 760 Message: 766

Dean,

The radio is very quiet with no signal - you won't get the "normal" no signal noise as the gain isn't excessive.

Steve G6ALU

----- Original Message -----
From: "Dean Davis" <dean@...>
To: <mkars80@...>
Sent: Monday, March 30, 2009 5:12 PM
Subject: Re: [mkars80] Smoke Test

> OK,
>
> I will try that. I pre-tinned all of my couls before I installed them. It
> still does not explain whay I do not have any RF gain.
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> D2
> Dean Davis (N7XG)
>
> Alpine Software
>
> www.alpineso ft.com
>
> --
> From: "DAVID CLENCH" <david.clench@...>
> Sent: Monday, March 30, 2009 8:52 AM
> To: mkars80@...
> Subject: Re: [mkars80] Smoke Test
>
> Hi
>
>
> I had a very similar problem to the one you describe and it was because I

> had not used enough heat to melt the insulation when soldering the coils
> to
> the pcb.
>
>
> Hope this helps.
>
>
> 73
>
>
> Dave G0BVV
>
>
> ---------------------------------
>
> From: Dean Davis <dean@...>
>
> To: mkars80@...
>
> Sent: Monday, 30 March, 2009 4:12:25 PM
>
> Subject: [mkars80] Smoke Test
>
>
> I have completed the build and now testing and I seem to have a big
> problem.
>
>
> 1) The voltage tests on R34 and and VR2 are right on the dot (source
> voltage is about 12.5, no microphone hooked up).
>
>
> However with an antenna hooked up:
>
>
> 1) I have no RF gain (i.e. no audio)
>
>
> 2) Turning the tune button does nothing
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>
> 3) If I touch Q6 I receive AM boardcast
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>
> 4) If I touch the LM386 I get a loud hum
>
>
> 5) I have started going through the voltage tests and several seem a bit
> high

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> 6) I have the PIC installed, but not the display
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> Dean, N7XG
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> [Non-text portions of this message have been removed]
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date: 03/28/09
07:16:00

767. Re: [mkars80] Smoke Test

Yahoo group: mkars80
Date: 2009-03-30 22:26:33 UTC
From: Dean Davis
Topic: 760 Message: 767

Nigel,

I pre-tinned all of my toriods before I installed them. I went back and re-soldered all of them, still nothing.

Dean

Nigel Gunn G8IFF/W8IFF wrote:
>
> You use the heat and strip/tin the wires BEFORE you put them anywhere
> near the board.
>
> DAVID CLENCH wrote:
> > Hi
> >
> > I had a very similar problem to the one you describe and it was
> because I had not used enough heat to melt the insulation when
> soldering the coils to the pcb.
> >
> > Hope this helps.
> >
> > 73
> >
> > Dave G0BVV
> >
> >
> >
> >
> > _____
> > From: Dean Davis <dean@... <mailto:dean%40alpinesoft.com>>
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Monday, 30 March, 2009 4:12:25 PM
> > Subject: [mkars80] Smoke Test
> >
> >
> > I have completed the build and now testing and I seem to have a big
> problem.
> >
> > 1) The voltage tests on R34 and and VR2 are right on the dot (source
> voltage is about 12.5, no microphone hooked up).
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> bit high
> >
> > 6) I have the PIC installed, but not the display
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> > Dean, N7XG
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> >
> > Yahoo! Groups Links
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> --
> Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1
> 937 825 5032
> Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@...
> <mailto:nigel%40ngunn.net> www http://www.ngunn.net <http://www.ngunn.net>
> Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP
> Club International #385,
> Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC, GCARES, XWARN
>
>

768. Re: [mkars80] Smoke Test

Yahoo group: mkars80
Date: 2009-03-30 23:53:45 UTC
From: Dean Davis
Topic: 760 Message: 768

Steve,

I decided to attach the display and it seems to be working.

What I noticed was that when the main tuning dial is counter clockwise
it displays a frequency like 3.911 and clockwise 3.529. I would have
expected that fully counter clockwise it would show the lower number
3.529 and clockwise the larger number 3.911

Still no receive.

Dean

Steve Drury wrote:
>
> Dean,
>
> The radio is very quiet with no signal - you won't get the "normal" no
> signal noise as the gain isn't excessive.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Dean Davis" <dean@... <mailto:dean%40alpinesoft.com>>
> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> Sent: Monday, March 30, 2009 5:12 PM
> Subject: Re: [mkars80] Smoke Test
>
> > OK,
> >
> > I will try that. I pre-tinned all of my couls before I installed
> them. It
> > still does not explain whay I do not have any RF gain.
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> > Dean Davis (N7XG)
> >
> > Alpine Software
> >
> > www.alpineso ft.com
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> > ---------------------------------------
> > From: "DAVID CLENCH" <david.clench@...
> <mailto:david.clench%40btinternet.com>>
> > Sent: Monday, March 30, 2009 8:52 AM
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> > Subject: Re: [mkars80] Smoke Test
> >
> > Hi
> >
> >
> > I had a very similar problem to the one you describe and it was
> because I
> > had not used enough heat to melt the insulation when soldering the
> coils
> > to
> > the pcb.
> >
> >
> > Hope this helps.
> >
> >
> > 73
> >
> >
> > Dave G0BVV
> >
> >
> > _____
> >
> > From: Dean Davis <dean@... <mailto:dean%40alpinesoft.com>>
> >
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> >
> > Sent: Monday, 30 March, 2009 4:12:25 PM
> >
> > Subject: [mkars80] Smoke Test
> >
> >
> > I have completed the build and now testing and I seem to have a big
> > problem.
> >
> >
> > 1) The voltage tests on R34 and and VR2 are right on the dot (source
> > voltage is about 12.5, no microphone hooked up).

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> > However with an antenna hooked up:
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> >
> > 1) I have no RF gain (i.e. no audio)
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> > 2) Turning the tune button does nothing
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> > 3) If I touch Q6 I receive AM boardcast
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> >
> > 4) If I touch the LM386 I get a loud hum
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> > 5) I have started going through the voltage tests and several seem a bit
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> >
> > 6) I have the PIC installed, but not the display
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> > Dean, N7XG
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date:
> 03/28/09
> 07:16:00
>
>

769. Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-03-31 17:21:54 UTC
From: ki4mmm
Topic: 763 Message: 769

All of my transistor and IC voltages check out, other than a few 0V pins on the PIC have a slight voltage - I am thinking that those should not be involved with the audio though. My transformers checked out fine as well.

I am having a hard time understanding what Q3 does in relation to pin3 on the LM386. I am familiar with turning off an audio amp with a R- voltage (i.e., no power) during transmit (as with the BitX), but I don't understand what is happening with a T+ voltage applied to the audio amp? Is Q3's collector pulling pin-3 (volume) to 0 volts?

i guess I should ask, since I don't totally understand the circuit: should I not hear my mic audio in my headphones when I transmit, or is that a feature of this design?

Thanks,
Greg
ki4mmm

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> No common TX boo boo I know of; first check all the transistor voltages in
> TX (just in case there is something in the wrong place) then check to
> transformers are wound correctly and the enamel is removed from the
> terminations when they were soldered.
>
> Hope theis helps?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "ki4mmm" <gderda@...>
> To: <mkars80@...>
> Sent: Monday, March 30, 2009 4:58 PM
> Subject: [mkars80] TX audio in headphones
>
>
> >I recently finished my build and everything (tuning, RX audio) works great
> >except that I cannot get any TX power out, and I hear my microphone audio
> >in my headphones when I key up. Is there an common boo-boo that results in
> >this? I'm thinking I may have a short in T5 (but would like to hear some
> >ideas first, before rewinding it). Maybe I have a problem with Q3 and TX
> >voltage keying, but again, I wanted to check and see if there is a
> >well-known goof-up.
> >
> > Greg
> > ki4mmm
> >
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date: 03/28/09
> 07:16:00
>

770. Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-03-31 20:12:12 UTC
From: John
Topic: 763 Message: 770

Hi,

Just out of interest I connected a microphone to my recently completed radio tonight for the first time and tried it into a dummy load, no 80m antenna yet!

I get power out but also some audio from the speaker, not much but using headphones it would probably seem quite loud.

It probably will not be a problem but I would also be interested to know if it's normal.

73,

John. G4GCL

--- In mkars80@..., "ki4mmm" <gderda@...> wrote:
>
> All of my transistor and IC voltages check out, other than a few 0V pins on the PIC have a slight voltage - I am thinking that those should not be involved with the audio though. My transformers checked out fine as well.
>
> I am having a hard time understanding what Q3 does in relation to pin3 on the LM386. I am familiar with turning off an audio amp with a R-voltage (i.e., no power) during transmit (as with the BitX), but I don't understand what is happening with a T+ voltage applied to the audio amp? Is Q3's collector pulling pin-3 (volume) to 0 volts?
>
> i guess I should ask, since I don't totally understand the circuit: should I not hear my mic audio in my headphones when I transmit, or is that a feature of this design?
>
> Thanks,
> Greg
> ki4mmm
>
> --- In mkars80@..., "Steve Drury" g6alu@ wrote:
> >
> > No common TX boo boo I know of; first check all the transistor voltages in
> > TX (just in case there is something in the wrong place) then check to
> > transformers are wound correctly and the enamel is removed from the
> > terminations when they were soldered.
> >

> > Hope theis helps?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "ki4mmm" gderda@
> > To: mkars80@...
> > Sent: Monday, March 30, 2009 4:58 PM
> > Subject: [mkars80] TX audio in headphones
> >
> >
> > >I recently finished my build and everything (tuning, RX audio)
works great
> > >except that I cannot get any TX power out, and I hear my microphone
audio
> > >in my headphones when I key up. Is there an common boo-boo that
results in
> > >this? I'm thinking I may have a short in T5 (but would like to hear
some
> > >ideas first, before rewinding it). Maybe I have a problem with Q3
and TX
> > >voltage keying, but again, I wanted to check and see if there is a
> > >well-known goof-up.
> > >
> > > Greg
> > > ki4mmm
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> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date:
03/28/09
> > 07:16:00

> >
>

771. Re: [mkars80] Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-03-31 20:19:32 UTC
From: Steve Drury
Topic: 763 Message: 771

Hi John,

Its normal to get a very low level through the speaker so if you are using efficient headphones I guess it could be quite loud.

Once you have it all set up and running you may like to try reducing the value of R5 (drive to mute transistor), 1k should turn it on harder but might introduce a "pop" when going to transmit from receive - solder one across the back first.

Be very carefull when using headphones as the radio doesn't have AGC - local stations can be VERY loud in headphones. The CW adapter (available later this week) has a headphone socket fitted with diode limiter which should help out here.

Steve G6ALU

----- Original Message -----
From: "John" <john.g4gcl@...>
To: <mkars80@...>
Sent: Tuesday, March 31, 2009 9:12 PM
Subject: [mkars80] Re: TX audio in headphones

>
> Hi,
>
> Just out of interest I connected a microphone to my recently completed
> radio tonight for the first time and tried it into a dummy load, no 80m
> antenna yet!
>
> I get power out but also some audio from the speaker, not much but using
> headphones it would probably seem quite loud.
>
> It probably will not be a problem but I would also be interested to know
> if it's normal.
>
> 73,
>
> John. G4GCL
>
>
> --- In mkars80@..., "ki4mmm" <gderda@...> wrote:
>>
>> All of my transistor and IC voltages check out, other than a few 0V
> pins on the PIC have a slight voltage - I am thinking that those should
> not be involved with the audio though. My transformers checked out fine

> as well.
>>
>> I am having a hard time understanding what Q3 does in relation to pin3
> on the LM386. I am familiar with turning off an audio amp with a R-
> voltage (i.e., no power) during transmit (as with the BitX), but I don't
> understand what is happening with a T+ voltage applied to the audio amp?
> Is Q3's collector pulling pin-3 (volume) to 0 volts?
>>
>> i guess I should ask, since I don't totally understand the circuit:
> should I not hear my mic audio in my headphones when I transmit, or is
> that a feature of this design?
>>
>> Thanks,
>> Greg
>> ki4mmm
>>
>> --- In mkars80@..., "Steve Drury" g6alu@ wrote:
>> >
>> > No common TX boo boo I know of; first check all the transistor
> voltages in
>> > TX (just in case there is something in the wrong place) then check
> to
>> > transformers are wound correctly and the enamel is removed from the
>> > terminations when they were soldered.
>> >
>> > Hope theis helps?
>> >
>> > Steve G6ALU
>> >
>> > ----- Original Message -----
>> > From: "ki4mmm" gderda@
>> > To: mkars80@...
>> > Sent: Monday, March 30, 2009 4:58 PM
>> > Subject: [mkars80] TX audio in headphones
>> >
>> >
>> > >I recently finished my build and everything (tuning, RX audio)
> works great
>> > >except that I cannot get any TX power out, and I hear my microphone
> audio
>> > >in my headphones when I key up. Is there an common boo-boo that
> results in
>> > >this? I'm thinking I may have a short in T5 (but would like to hear
> some
>> > >ideas first, before rewinding it). Maybe I have a problem with Q3
> and TX
>> > >voltage keying, but again, I wanted to check and see if there is a
>> > >well-known goof-up.
>> > >
>> > > Greg

>> > > ki4mmm
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>> > No virus found in this incoming message.
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> 03/28/09
>> > 07:16:00
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772. Re: [mkars80] Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-03-31 20:26:55 UTC
From: Steve Drury
Topic: 763 Message: 772

Q3 is a mute transistor to mute the audio when in transmit, as you note the BITX20 takes the audio supply from the +12V receive supply - I tried this but you get a loud pop on TX to RX transitions.

Check you haven't got any voltage (> 0.3V) on the base of Q3 whilst in receive - if you have it may originate from a faulty transmit PA transistor (drain to gate short).

As per Johns email you will hear a small amount of audio in your speaker on TX but its mostly muted by Q3 being turned on - Q3 is a switch not an amplifier.

Do you have any test equipment; oscilloscope and signal generator or do you know a local Ham who could help you locate your problems?

Steve G6ALU

----- Original Message -----
From: "ki4mmm" <gderda@...>
To: <mkars80@...>
Sent: Tuesday, March 31, 2009 6:21 PM
Subject: [mkars80] Re: TX audio in headphones

> All of my transistor and IC voltages check out, other than a few 0V pins
> on the PIC have a slight voltage - I am thinking that those should not be
> involved with the audio though. My transformers checked out fine as well.
>
> I am having a hard time understanding what Q3 does in relation to pin3 on
> the LM386. I am familiar with turning off an audio amp with a R- voltage
> (i.e., no power) during transmit (as with the BitX), but I don't
> understand what is happening with a T+ voltage applied to the audio amp?
> Is Q3's collector pulling pin-3 (volume) to 0 volts?
>
> i guess I should ask, since I don't totally understand the circuit: should
> I not hear my mic audio in my headphones when I transmit, or is that a
> feature of this design?
>
> Thanks,
> Greg
> ki4mmm
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> No common TX boo boo I know of; first check all the transistor voltages
>> in
>> TX (just in case there is something in the wrong place) then check to

>> transformers are wound correctly and the enamel is removed from the
>> terminations when they were soldered.
>>
>> Hope theis helps?
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "ki4mmm" <gderda@...>
>> To: <mkars80@...>
>> Sent: Monday, March 30, 2009 4:58 PM
>> Subject: [mkars80] TX audio in headphones
>>
>>
>> >I recently finished my build and everything (tuning, RX audio) works
>> >great
>> >except that I cannot get any TX power out, and I hear my microphone
>> >audio
>> >in my headphones when I key up. Is there an common boo-boo that results
>> >in
>> >this? I'm thinking I may have a short in T5 (but would like to hear
>> >some
>> >ideas first, before rewinding it). Maybe I have a problem with Q3 and
>> >TX
>> >voltage keying, but again, I wanted to check and see if there is a
>> >well-known goof-up.
>> >
>> > Greg
>> > ki4mmm
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>> > Yahoo! Groups Links
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date:
>> 03/28/09

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773. Re: [mkars80] Smoke Test

Yahoo group: mkars80
Date: 2009-03-31 20:34:56 UTC
From: Steve Drury
Topic: 760 Message: 773

Dean,

This is normal and one of the quirks of the little radio - remember that it has a 10MHz IF so to tune 3.5 to 3.8MHz so the VFO has to span 6.5 to 6.2MHz - it has to work backwards!

If you don't get used to it then you can do the varacter tuning mod in the files section.

Have you received any signals yet?

Steve G6ALU

----- Original Message -----
From: "Dean Davis" <dean@...>
To: <mkars80@...>
Sent: Tuesday, March 31, 2009 12:53 AM
Subject: Re: [mkars80] Smoke Test

> Steve,
>
> I decided to attach the display and it seems to be working.
>
> What I noticed was that when the main tuning dial is counter clockwise
> it displays a frequency like 3.911 and clockwise 3.529. I would have
> expected that fully counter clockwise it would show the lower number
> 3.529 and clockwise the larger number 3.911
>
> Still no receive.
>
> Dean
>
> Steve Drury wrote:
>>
>> Dean,
>>
>> The radio is very quiet with no signal - you won't get the "normal" no
>> signal noise as the gain isn't excessive.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Dean Davis" <dean@... <mailto:dean%40alpinesoft.com>>
>> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
>> Sent: Monday, March 30, 2009 5:12 PM
>> Subject: Re: [mkars80] Smoke Test

>>
>> > OK,
>> >
>> > I will try that. I pre-tinned all of my couls before I installed
>> them. It
>> > still does not explain whay I do not have any RF gain.
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>> > Normal
>> > 0
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>> > MicrosoftInternetExplorer4
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>> > Normal
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>> > MicrosoftInternetExplorer4
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>> >
>> > D2
>> > Dean Davis (N7XG)
>> >
>> > Alpine Software
>> >
>> > www.alpineso ft.com
>> >
>> > ----------
>> > From: "DAVID CLENCH" <david.clench@...
>> <mailto:david.clench%40btinternet.com>>
>> > Sent: Monday, March 30, 2009 8:52 AM
>> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
>> > Subject: Re: [mkars80] Smoke Test
>> >
>> > Hi
>> >
>> >
>> > I had a very similar problem to the one you describe and it was
>> because I
>> > had not used enough heat to melt the insulation when soldering the
>> coils
>> > to
>> > the pcb.
>> >
>> >
>> > Hope this helps.
>> >
>> >
>> > 73
>> >
>> >
>> > Dave G0BVV

>> >
>> >
>> > _____
>> >
>> > From: Dean Davis <dean@... <mailto:dean%40alpinesoft.com>>
>> >
>> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
>> >
>> > Sent: Monday, 30 March, 2009 4:12:25 PM
>> >
>> > Subject: [mkars80] Smoke Test
>> >
>> >
>> > I have completed the build and now testing and I seem to have a big
>> > problem.
>> >
>> >
>> > 1) The voltage tests on R34 and and VR2 are right on the dot (source
>> > voltage is about 12.5, no microphone hooked up).
>> >
>> >
>> > However with an antenna hooked up:
>> >
>> >
>> > 1) I have no RF gain (i.e. no audio)
>> >
>> >
>> > 2) Turning the tune button does nothing
>> >
>> >
>> > 3) If I touch Q6 I receive AM boardcast
>> >
>> >
>> > 4) If I touch the LM386 I get a loud hum
>> >
>> >
>> > 5) I have started going through the voltage tests and several seem a
>> > bit
>> > high
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>> >
>> > 6) I have the PIC installed, but not the display
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>> > Dean, N7XG
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>> > [Non-text portions of this message have been removed]
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>> > [Non-text portions of this message have been removed]
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>> > Yahoo! Groups Links
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>> No virus found in this incoming message.
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>> 03/28/09
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>
> Yahoo! Groups Links
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774. Re: [mkars80] Smoke Test

Yahoo group: mkars80
Date: 2009-03-31 23:30:35 UTC
From: Dean Davis
Topic: 760 Message: 774

Steve,

Receiver is still dead.

Dean

Normal
0

false
false
false

MicrosoftInternetExplorer4

Normal
0

false
false
false

MicrosoftInternetExplorer4

D2
Dean Davis (N7XG)

Alpine Software

www.alpineso ft.com

From: "Steve Drury" <g6alu@...>
Sent: Tuesday, March 31, 2009 2:06 PM
To: mkars80@...
Subject: Re: [mkars80] Smoke Test

Dean,

This is normal and one of the quirks of the little radio - remember that it

has a 10MHz IF so to tune 3.5 to 3.8MHz so the VFO has to span 6.5 to

6.2MHz - it has to work backwards!

If you don't get used to it then you can do the varacter tuning mod in the

files section.

Have you received any signals yet?

Steve G6ALU

----- Original Message -----

From: "Dean Davis" <dean@...>

To: <mkars80@...>

Sent: Tuesday, March 31, 2009 12:53 AM

Subject: Re: [mkars80] Smoke Test

> Steve,

>

> I decided to attach the display and it seems to be working.

>

> What I noticed was that when the main tuning dial is counter clockwise

> it displays a frequency like 3.911 and clockwise 3.529. I would have

> expected that fully counter clockwise it would show the lower number

> 3.529 and clockwise the larger number 3.911

>

> Still no receive.

>

> Dean

>

> Steve Drury wrote:

>>

>> Dean,

>>

>> The radio is very quiet with no signal - you won't get the "normal" no

>> signal noise as the gain isn't excessive.

>>

>> Steve G6ALU

>>

>> ----- Original Message -----

>> From: "Dean Davis" <dean@... <mailto:dean%40alpinesoft.com>>

>> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>

>> Sent: Monday, March 30, 2009 5:12 PM

>> Subject: Re: [mkars80] Smoke Test

>>

>> > OK,

>> >

>> > I will try that. I pre-tinned all of my couls before I installed

>> them. It

>> > still does not explain whay I do not have any RF gain.

>> >

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>> > Normal

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>> > MicrosoftInternetExplorer4

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>> > Normal

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>> > false

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>> > MicrosoftInternetExplorer4

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>> > D2

>> > Dean Davis (N7XG)

>> >

>> > Alpine Software

>> >

>> > www.alpineso ft.com

>> >

>> > ----------

>> > From: "DAVID CLENCH" <david.clench@...

>> <mailto:david.clench%40btinternet.com>>

>> > Sent: Monday, March 30, 2009 8:52 AM

>> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>

>> > Subject: Re: [mkars80] Smoke Test

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>> > Hi

>> >

>> >

>> > I had a very similar problem to the one you describe and it was

>> because I

>> > had not used enough heat to melt the insulation when soldering the

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>> > the pcb.

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>> >

>> >

>> > Dave G0BVV

>> >

>> >

>> > _____

>> >

>> > From: Dean Davis <dean@... <mailto:dean%40alpinesoft.com>>

>> >

>> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>

>> >

>> > Sent: Monday, 30 March, 2009 4:12:25 PM

>> >

>> > Subject: [mkars80] Smoke Test

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>> > I have completed the build and now testing and I seem to have a big

>> > problem.

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>> > 1) The voltage tests on R34 and and VR2 are right on the dot (source

>> > voltage is about 12.5, no microphone hooked up).

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>> >

>> > However with an antenna hooked up:

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>> >

>> > 1) I have no RF gain (i.e. no audio)

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>> > 2) Turning the tune button does nothing

>> >

>> >

>> > 3) If I touch Q6 I receive AM boardcast

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>> >

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>> >

>> >

>> > 5) I have started going through the voltage tests and several seem a

>> > bit

>> > high

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>> > 6) I have the PIC installed, but not the display

>> >

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>> > Dean, N7XG

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>> > [Non-text portions of this message have been removed]

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>> > [Non-text portions of this message have been removed]

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>> > Yahoo! Groups Links

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>> No virus found in this incoming message.

>> Checked by AVG - www.avg.com

>> Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date:

>> 03/28/09

>> 07:16:00

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> Yahoo! Groups Links

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[Non-text portions of this message have been removed]

775. Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-04-01 13:00:17 UTC
From: ki4mmm
Topic: 763 Message: 775

Steve,

Yes, I have a pile of test equipment. I went through everything last night, and at the same time learned some basis Electronics 101 e.g., what a basic transistor switch is :-).

I disconnected the link to T5 and still have the problem, so it is in the mic/audio part of the circuit.

Everything in those circuits checks out fine other than mic audio leaks into the LM386. If I short Q3's collector to ground upon transmit, it totally blocks the leaked audio.

I'm thinking possible fixes might include:

1. Lower value for R28 (and R5) might shunt more current through Q3?
2. Maybe a different NPN for Q3 would work better for me?
3. Maybe C35 is at fault?

Thank you,
Greg
ki4mmm

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Q3 is a mute transistor to mute the audio when in transmit, as you note the
> BITX20 takes the audio supply from the +12V receive supply - I tried this
> but you get a loud pop on TX to RX transitions.
>
> Check you haven't got any voltage (> 0.3V) on the base of Q3 whilst in
> receive - if you have it may originate from a faulty transmit PA transistor
> (drain to gate short).
>
> As per Johns email you will hear a small amount of audio in your speaker on
> TX but its mostly muted by Q3 being turned on - Q3 is a switch not an
> amplifier.
>
> Do you have any test equipment; oscilloscope and signal generator or do you
> know a local Ham who could help you locate your problems?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "ki4mmm" <gderda@...>
> To: <mkars80@...>
> Sent: Tuesday, March 31, 2009 6:21 PM
> Subject: [mkars80] Re: TX audio in headphones
>
>

> > All of my transistor and IC voltages check out, other than a few 0V pins
> > on the PIC have a slight voltage - I am thinking that those should not be
> > involved with the audio though. My transformers checked out fine as well.
> >
> > I am having a hard time understanding what Q3 does in relation to pin3 on
> > the LM386. I am familiar with turning off an audio amp with a R- voltage
> > (i.e., no power) during transmit (as with the BitX), but I don't
> > understand what is happening with a T+ voltage applied to the audio amp?
> > Is Q3's collector pulling pin-3 (volume) to 0 volts?
> >
> > i guess I should ask, since I don't totally understand the circuit: should
> > I not hear my mic audio in my headphones when I transmit, or is that a
> > feature of this design?
> >
> > Thanks,
> > Greg
> > ki4mmm
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> No common TX boo boo I know of; first check all the transistor voltages
> >> in
> >> TX (just in case there is something in the wrong place) then check to
> >> transformers are wound correctly and the enamel is removed from the
> >> terminations when they were soldered.
> >>
> >> Hope theis helps?
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "ki4mmm" <gderda@>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Monday, March 30, 2009 4:58 PM
> >> Subject: [mkars80] TX audio in headphones
> >>
> >>
> >> >I recently finished my build and everything (tuning, RX audio) works
> >> >great
> >> >except that I cannot get any TX power out, and I hear my microphone
> >> >audio
> >> >in my headphones when I key up. Is there an common boo-boo that results
> >> >in
> >> >this? I'm thinking I may have a short in T5 (but would like to hear
> >> >some
> >> >ideas first, before rewinding it). Maybe I have a problem with Q3 and
> >> >TX
> >> >voltage keying, but again, I wanted to check and see if there is a
> >> >well-known goof-up.
> >> >

> >> > Greg
> >> > ki4mmm
> >> >
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> >> > Yahoo! Groups Links
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> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date:
> >> 03/28/09
> >> 07:16:00
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> > ------------------------------------
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> > Yahoo! Groups Links
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776. Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-04-01 13:51:40 UTC
From: ki4mmm
Topic: 763 Message: 776

Steve,

I just noticed the two-message dialog between you and John on this (I don't know why I didn't see it before), and your mention of a lower resistor - I will try that tonight.

Greg
ki4mmm

777. IC1 LM386

Yahoo group: mkars80
Date: 2009-04-01 19:54:40 UTC
From: byling4
Topic: 777 Message: 777

Hi all,..Steve would it be in order to use a holder for the Audio amplifier chip,..I know there isn't one shown but I try to use a holder where possible,...thanks

778. Re: [mkars80] IC1 LM386

Yahoo group: mkars80
Date: 2009-04-01 20:26:17 UTC
From: Steve Drury
Topic: 777 Message: 778

I don't recommend one as the audio chip relies on a good thermal contact with the PCB to get rid of its heat - others may like to tell us if they have used one and the outcome.

Steve G6ALU

----- Original Message -----
From: "byling4" <bpaton@...>
To: <mkars80@...>
Sent: Wednesday, April 01, 2009 8:54 PM
Subject: [mkars80] IC1 LM386

> Hi all,..Steve would it be in order to use a holder for the Audio
> amplifier chip,..I know there isn't one shown but I try to use a holder
> where possible,...thanks
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.35/2033 - Release Date: 03/31/09 13:05:00

779. Re: IC1 LM386

Yahoo group: mkars80
Date: 2009-04-02 14:17:54 UTC
From: byling4
Topic: 777 Message: 779

--- In mkars80@..., "byling4" <bpaton@...> wrote:
>
> Hi all,..Steve would it be in order to use a holder for the Audio amplifier chip,..I know there isn't one shown but I try to use a holder where possible,...thanks
>

OK Steve thanks for that I just wanted a bit of guidance,..I wasn't going to build the kit till next winter but boredom set-in and so far it's a joy to construct,...thanks and regards Colin GM7TFN

780. Re: [mkars80] IC1 LM386

Yahoo group: mkars80
Date: 2009-04-03 02:33:54 UTC
From: flos1570@yahoo.co.uk
Topic: 777 Message: 780

Dear Steve,

I have used IC sockets for LM386 in various projects for years,
including LM380s with no heating problems.

My 'Epiphyte' (QRP Club kit, 80 mtrs, VE7QK Derry Spittle) has been
working for several years with 386 in a socket (all 5 chips in sockets)

Sockets can save many problems when trouble shooting.

Regards
--- On Wed, 1/4/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] IC1 LM386
To: mkars80@...
Date: Wednesday, 1 April, 2009, 9:26 PM

I don't recommend one as the audio chip relies on a good thermal contact
with the PCB to get rid of its heat - others may like to tell us if they
have used one and the outcome.

Steve G6ALU

----- Original Message -----
From: "byling4" <bpaton@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Wednesday, April 01, 2009 8:54 PM
Subject: [mkars80] IC1 LM386

> Hi all,..Steve would it be in order to use a holder for the Audio
> amplifier chip,..I know there isn't one shown but I try to use a holder
> where possible,...thanks

[Non-text portions of this message have been removed]

781. Display Bezel

Yahoo group: mkars80
Date: 2009-04-04 08:06:18 UTC
From: David
Topic: 781 Message: 781

Hi
I've just completed my radio (worked first time)! I'm going to box it up and am looking for a suitable bezel for the display. Does anybody have any experience of where to buy (UK) a suitable one.

73s

david

782. Re: [mkars80] Display Bezel

Yahoo group: mkars80
Date: 2009-04-04 08:26:31 UTC
From: Steve Drury
Topic: 781 Message: 782

David,

So far most have used the front panel overlay supplied on my website - the black margin around the display disguises less than perfect handiwork!

Steve G6ALU

----- Original Message -----
From: "David" <theshroomary@...>
To: <mkars80@...>
Sent: Saturday, April 04, 2009 9:06 AM
Subject: [mkars80] Display Bezel

> Hi
> I've just completed my radio (worked first time)! I'm going to box it up
> and am looking for a suitable bezel for the display. Does anybody have
> any experience of where to buy (UK) a suitable one.
>
> 73s
>
> david
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

783. Re: [mkars80] Display Bezel

Yahoo group: mkars80
Date: 2009-04-04 16:10:40 UTC
From: Calvin Battersby
Topic: 781 Message: 783

Hi David,

Hope you enjoy using it, have a look on the Farnell web site they did bezels when I last looked.

Calvin M1EPM

----- Original Message -----
From: "David" <theshroomary@...>
To: <mkars80@...>
Sent: Saturday, April 04, 2009 9:06 AM
Subject: [mkars80] Display Bezel

> Hi
> I've just completed my radio (worked first time)! I'm going to box it up
> and am looking for a suitable bezel for the display. Does anybody have
> any experience of where to buy (UK) a suitable one.
>
> 73s
>
> david
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> ------------------------------------
>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.41/2040 - Release Date: 04/03/09 17:54:00

784. Box/enclosure ad microphone information required please.

Yahoo group: mkars80
Date: 2009-04-05 13:44:25 UTC
From: philg7bzd@btinternet.com
Topic: 784 Message: 784

I am looking for a box/enclosure to fit my MKARS80 into, with the idea of having the display and controls on the face rather than the top. And maybe room for an internal SLA battery.
If anyone knows of a website that they can point me in the direction of I would be gratefull.
Anyone got any ideas on a microphone, can R17 be switched to cater for a dynamic mic rather than an electret ?

Regards
Phil G7BZD

785. Re: [mkars80] Box/enclosure ad microphone information required please.

Yahoo group: mkars80
Date: 2009-04-05 14:58:22 UTC
From: Steve Drury
Topic: 784 Message: 785

Phil,

Re the microphone - R17 could be switched but be carefull about leads and RF / noise getting in. Any low cost electret works, I have used examples from pound lamd and Tescos.

Steve G6ALU

----- Original Message -----
From: <philg7bzd@...>
To: <mkars80@...>
Sent: Sunday, April 05, 2009 2:44 PM
Subject: [mkars80] Box/enclosure ad microphone information required please.

>I am looking for a box/enclosure to fit my MKARS80 into, with the idea of
>having the display and controls on the face rather than the top. And maybe
>room for an internal SLA battery.
> If anyone knows of a website that they can point me in the direction of I
> would be gratefull.
> Anyone got any ideas on a microphone, can R17 be switched to cater for a
> dynamic mic rather than an electret ?
>
> Regards
> Phil G7BZD
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.41/2041 - Release Date: 04/04/09 16:53:00

786. CW adapter availability

Yahoo group: mkars80
Date: 2009-04-05 15:25:02 UTC
From: Steve Drury
Topic: 786 Message: 786

OK, the CW adapter is available but I only want to let the first batch go to UK builders how are able to build it over the next week or so.

The reason for this is that I've only had one Beta builder give me reports on its function, whilst I'm confident of the design I'm always aware that others might want levels etc. setting differently to me.

If anyone would like to purchase one and give me some quick feedback then please send me an email.

Cost for these first kits will be £25 + £3 postage payable by Paypal or cheque, these kits include the keyer option; the first batch (10 parts) have taken Val and myself most of today to kit so we will be reviewing the cost for the next batch.

To make kitting easier I'm thinking of doing away with the keyer option and including this as standard, I will also be looking to rationalise component values (mainly resistors) to make kitting easier.

The manual (version V1.1) will be posted in the group files section later.

Regards,
Steve G6ALU

[Non-text portions of this message have been removed]

787. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2009-04-06 21:18:06 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 787

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /CW Adapter/CW Adapter Manual V1.1.pdf
Uploaded by : hamlab3 <g6alu@...>
Description : Construction manual

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/CW%20Adapter/CW%20Adapter%20Manual%20V1.1.p
df

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

hamlab3 <g6alu@...>

788. Re: CW adapter availability

Yahoo group: mkars80
Date: 2009-04-07 11:00:18 UTC
From: g3oth
Topic: 786 Message: 788

Hi Steve and Val
I received the CW adapter kit you sent me this morning. I have already downloaded and printed out the manual you posted in the files section last night. Everything looks fine so hope to start assembling things here tonight.
Many thanks again Charles G3OTH

-- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> OK, the CW adapter is available but I only want to let the first batch go to UK builders how are able to build it over the next week or so.
>
> The reason for this is that I've only had one Beta builder give me reports on its function, whilst I'm confident of the design I'm always aware that others might want levels etc. setting differently to me.
>
> If anyone would like to purchase one and give me some quick feedback then please send me an email.
>
> Cost for these first kits will be £25 + £3 postage payable by Paypal or cheque, these kits include the keyer option; the first batch (10 parts) have taken Val and myself most of today to kit so we will be reviewing the cost for the next batch.
>
> To make kitting easier I'm thinking of doing away with the keyer option and including this as standard, I will also be looking to rationalise component values (mainly resistors) to make kitting easier.
>
> The manual (version V1.1) will be posted in the group files section later.
>
> Regards,
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>

789. Re: CW adapter availability

Yahoo group: mkars80
Date: 2009-04-07 11:10:24 UTC
From: g3oth
Topic: 786 Message: 789

Hi Steve and Val
I received the CW adapter kit you sent me this morning. I have already downloaded and printed out the manual you posted in the files section last night. Everything looks fine so hope to start assembling things here tonight.
Many thanks again Charles G3OTH

-- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> OK, the CW adapter is available but I only want to let the first batch go to UK builders how are able to build it over the next week or so.
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> The reason for this is that I've only had one Beta builder give me reports on its function, whilst I'm confident of the design I'm always aware that others might want levels etc. setting differently to me.
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> To make kitting easier I'm thinking of doing away with the keyer option and including this as standard, I will also be looking to rationalise component values (mainly resistors) to make kitting easier.
>
> The manual (version V1.1) will be posted in the group files section later.
>
> Regards,
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>

790. Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-04-09 01:37:08 UTC
From: ki4mmm
Topic: 763 Message: 790

Just an update on my problems....

I went through my radio with an audio and RF signal generator, monitoring with my scope, and narrowed my "no power out" problem to T6 - I had one lead not making good contact. This fixed my TX power-out problem (i.e., there wasn't enough modulated signal coming through before.

The mic audio in my headphones is minimal, and non-existent when using an external speaker.

The result is that my rig is working great, and I made my first contact tonight with a station about 500km away! He gave me a 5-8 report and said my audio sounded great.

In summary, what a nice little rig this is!!

Greg
ki4mmm

--- In mkars80@..., "ki4mmm" <gderda@...> wrote:
>
> Steve,
>
> Yes, I have a pile of test equipment. I went through everything last night, and at the same time learned some basis Electronics 101 e.g., what a basic transistor switch is :-).
>
> I disconnected the link to T5 and still have the problem, so it is in the mic/audio part of the circuit.
>
> Everything in those circuits checks out fine other than mic audio leaks into the LM386. If I short Q3's collector to ground upon transmit, it totally blocks the leaked audio.
>
> I'm thinking possible fixes might include:
>
> 1. Lower value for R28 (and R5) might shunt more current through Q3?
> 2. Maybe a different NPN for Q3 would work better for me?
> 3. Maybe C35 is at fault?
>
> Thank you,
> Greg
> ki4mmm
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Q3 is a mute transistor to mute the audio when in transmit, as you note the
> > BITX20 takes the audio supply from the +12V receive supply - I tried this
> > but you get a loud pop on TX to RX transitions.
> >

> > Check you haven't got any voltage (> 0.3V) on the base of Q3 whilst in
> > receive - if you have it may originate from a faulty transmit PA transistor
> > (drain to gate short).
> >
> > As per Johns email you will hear a small amount of audio in your speaker on
> > TX but its mostly muted by Q3 being turned on - Q3 is a switch not an
> > amplifier.
> >
> > Do you have any test equipment; oscilloscope and signal generator or do you
> > know a local Ham who could help you locate your problems?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "ki4mmm" <gderda@>
> > To: <mkars80@...>
> > Sent: Tuesday, March 31, 2009 6:21 PM
> > Subject: [mkars80] Re: TX audio in headphones
> >
> >
> > > All of my transistor and IC voltages check out, other than a few 0V pins
> > > on the PIC have a slight voltage - I am thinking that those should not be
> > > involved with the audio though. My transformers checked out fine as well.
> > >
> > > I am having a hard time understanding what Q3 does in relation to pin3 on
> > > the LM386. I am familiar with turning off an audio amp with a R- voltage
> > > (i.e., no power) during transmit (as with the BitX), but I don't
> > > understand what is happening with a T+ voltage applied to the audio amp?
> > > Is Q3's collector pulling pin-3 (volume) to 0 volts?
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> > > i guess I should ask, since I don't totally understand the circuit: should
> > > I not hear my mic audio in my headphones when I transmit, or is that a
> > > feature of this design?
> > >
> > > Thanks,
> > > Greg
> > > ki4mmm
> > >
> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >>
> > >> No common TX boo boo I know of; first check all the transistor voltages
> > >> in
> > >> TX (just in case there is something in the wrong place) then check to
> > >> transformers are wound correctly and the enamel is removed from the
> > >> terminations when they were soldered.
> > >>
> > >> Hope theis helps?
> > >>
> > >> Steve G6ALU
> > >>

> > >> ----- Original Message -----
> > >> From: "ki4mmm" <gderda@>
> > >> To: <mkars80@...>
> > >> Sent: Monday, March 30, 2009 4:58 PM
> > >> Subject: [mkars80] TX audio in headphones
> > >>
> > >>
> > >> >I recently finished my build and everything (tuning, RX audio) works
> > >> >great
> > >> >except that I cannot get any TX power out, and I hear my microphone
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> > >> >
> > >> > Greg
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> > >
> > > Yahoo! Groups Links
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>

791. Re: [mkars80] Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-04-09 02:26:01 UTC
From: Dean Davis
Topic: 763 Message: 791

Greg,

So what did you do about the headphone volume.

Dean, N7XG

ki4mmm wrote:
>
>
> Just an update on my problems....
>
> I went through my radio with an audio and RF signal generator,
> monitoring with my scope, and narrowed my "no power out" problem to T6
> - I had one lead not making good contact. This fixed my TX power-out
> problem (i.e., there wasn't enough modulated signal coming through before.
>
> The mic audio in my headphones is minimal, and non-existent when using
> an external speaker.
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> The result is that my rig is working great, and I made my first
> contact tonight with a station about 500km away! He gave me a 5-8
> report and said my audio sounded great.
>
> In summary, what a nice little rig this is!!
>
> Greg
> ki4mmm
>
> --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk>,
> "ki4mmm" <gderda@...> wrote:
> >
> > Steve,
> >
> > Yes, I have a pile of test equipment. I went through everything last
> night, and at the same time learned some basis Electronics 101 e.g.,
> what a basic transistor switch is :-).
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> > I disconnected the link to T5 and still have the problem, so it is
> in the mic/audio part of the circuit.
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> > Everything in those circuits checks out fine other than mic audio
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> transmit, it totally blocks the leaked audio.
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> > I'm thinking possible fixes might include:
> >

> > 1. Lower value for R28 (and R5) might shunt more current through Q3?
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> > > Check you haven't got any voltage (> 0.3V) on the base of Q3
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> > > (drain to gate short).
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> > > Do you have any test equipment; oscilloscope and signal generator
> or do you
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> > >
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "ki4mmm" <gderda@>
> > > To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> > > Sent: Tuesday, March 31, 2009 6:21 PM
> > > Subject: [mkars80] Re: TX audio in headphones
> > >
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> 0V pins
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> > > > the LM386. I am familiar with turning off an audio amp with a R-
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> audio amp?
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> circuit: should
> > > > > I not hear my mic audio in my headphones when I transmit, or is
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> > > > > Thanks,
> > > > > Greg
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> > > > > --- In mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>, "Steve Drury" <g6alu@> wrote:
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> > > >> To: <mkars80@...
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> > > >> >I recently finished my build and everything (tuning, RX audio)
> works
> > > >> >great
> > > >> >except that I cannot get any TX power out, and I hear my
> microphone
> > > >> >audio
> > > >> >in my headphones when I key up. Is there an common boo-boo
> that results
> > > >> >in
> > > >> >this? I'm thinking I may have a short in T5 (but would like to

> hear
> > > >> >some
> > > >> >ideas first, before rewinding it). Maybe I have a problem with
> Q3 and
> > > >> >TX
> > > >> >voltage keying, but again, I wanted to check and see if there is a
> > > >> >well-known goof-up.
> > > >> >
> > > >> > Greg
> > > >> > ki4mmm
> > > >> >
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> > > >>
> > > >> No virus found in this incoming message.
> > > >> Checked by AVG - www.avg.com
> > > >> Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date:
> > > >> 03/28/09
> > > >> 07:16:00
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792. Re: TX audio in headphones

Yahoo group: mkars80
Date: 2009-04-09 12:17:11 UTC
From: ki4mmm
Topic: 763 Message: 792

Dean,

I had already tried a few different resistors around Q3, but with no luck (most combinations made it worse); so, I still have mic audio in my headphones. Nevertheless, I didn't notice it during my actual QSO last night - I reckon I was too excited about the contact to think about it ;-). I'm not going to pursue it any further as I will probably be excited enough about any future QRP 80M contacts to think about it then ;-). I don't know about other countries, but finding a QRP opening on 80M here in the states is a rare event (between the kilowatt rag-chew sessions at 3Khz intervals)!

Greg
ki4mmm

--- In mkars80@..., Dean Davis <dean@...> wrote:
>
> Greg,
>
> So what did you do about the headphone volume.
>
> Dean, N7XG
>
> ki4mmm wrote:
> >
> >
> > Just an update on my problems....
> >
> > I went through my radio with an audio and RF signal generator,
> > monitoring with my scope, and narrowed my "no power out" problem to T6
> > - I had one lead not making good contact. This fixed my TX power-out
> > problem (i.e., there wasn't enough modulated signal coming through before.
> >
> > The mic audio in my headphones is minimal, and non-existent when using
> > an external speaker.
> >
> > The result is that my rig is working great, and I made my first
> > contact tonight with a station about 500km away! He gave me a 5-8
> > report and said my audio sounded great.
> >
> > In summary, what a nice little rig this is!!
> >
> > Greg
> > ki4mmm
> >
> > --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk>,
> > "ki4mmm" <gderda@> wrote:
> > >

> > > Steve,
> > >
> > > Yes, I have a pile of test equipment. I went through everything last
> > night, and at the same time learned some basis Electronics 101 e.g.,
> > what a basic transistor switch is :-).
> > >
> > > I disconnected the link to T5 and still have the problem, so it is
> > in the mic/audio part of the circuit.
> > >
> > > Everything in those circuits checks out fine other than mic audio
> > leaks into the LM386. If I short Q3's collector to ground upon
> > transmit, it totally blocks the leaked audio.
> > >
> > > I'm thinking possible fixes might include:
> > >
> > > 1. Lower value for R28 (and R5) might shunt more current through Q3?
> > > 2. Maybe a different NPN for Q3 would work better for me?
> > > 3. Maybe C35 is at fault?
> > >
> > > Thank you,
> > > Greg
> > > ki4mmm
> > >
> > > --- In mkars80@...
> > <mailto:mkars80%40yahoogroups.co.uk>, "Steve Drury" <g6alu@> wrote:
> > > >
> > > > Q3 is a mute transistor to mute the audio when in transmit, as you
> > note the
> > > > BITX20 takes the audio supply from the +12V receive supply - I
> > tried this
> > > > but you get a loud pop on TX to RX transitions.
> > > >
> > > > Check you haven't got any voltage (> 0.3V) on the base of Q3
> > whilst in
> > > > receive - if you have it may originate from a faulty transmit PA
> > transistor
> > > > (drain to gate short).
> > > >
> > > > As per Johns email you will hear a small amount of audio in your
> > speaker on
> > > > TX but its mostly muted by Q3 being turned on - Q3 is a switch not an
> > > > amplifier.
> > > >
> > > > Do you have any test equipment; oscilloscope and signal generator
> > or do you
> > > > know a local Ham who could help you locate your problems?
> > > >
> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----

> > > > From: "ki4mmm" <gderda@>
> > > > To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> > > > Sent: Tuesday, March 31, 2009 6:21 PM
> > > > Subject: [mkars80] Re: TX audio in headphones
> > > > >
> > > > >
> > > > > > All of my transistor and IC voltages check out, other than a few
> > 0V pins
> > > > > > on the PIC have a slight voltage - I am thinking that those
> > should not be
> > > > > > involved with the audio though. My transformers checked out fine
> > as well.
> > > > > >
> > > > > > I am having a hard time understanding what Q3 does in relation
> > to pin3 on
> > > > > > the LM386. I am familiar with turning off an audio amp with a R-
> > voltage
> > > > > > (i.e., no power) during transmit (as with the BitX), but I don't
> > > > > > understand what is happening with a T+ voltage applied to the
> > audio amp?
> > > > > > Is Q3's collector pulling pin-3 (volume) to 0 volts?
> > > > > >
> > > > > > i guess I should ask, since I don't totally understand the
> > circuit: should
> > > > > > I not hear my mic audio in my headphones when I transmit, or is
> > that a
> > > > > > feature of this design?
> > > > > >
> > > > > > Thanks,
> > > > > > Greg
> > > > > > ki4mmm
> > > > > >
> > > > > > --- In mkars80@yahoogroups.co.uk
> > <mailto:mkars80%40yahoogroups.co.uk>, "Steve Drury" <g6alu@> wrote:
> > > > > >>
> > > > > >> No common TX boo boo I know of; first check all the transistor
> > voltages
> > > > > >> in
> > > > > >> TX (just in case there is something in the wrong place) then
> > check to
> > > > > >> transformers are wound correctly and the enamel is removed from the
> > > > > >> terminations when they were soldered.
> > > > > >>
> > > > > >> Hope theis helps?
> > > > > >>
> > > > > >> Steve G6ALU
> > > > > >>
> > > > > >> ----- Original Message -----
> > > > > >> From: "ki4mmm" <gderda@>
> > > > > >> To: <mkars80@yahoogroups.co.uk

> > <mailto:mkars80%40yahoogroups.co.uk>>
> > > > >> Sent: Monday, March 30, 2009 4:58 PM
> > > > >> Subject: [mkars80] TX audio in headphones
> > > > >>
> > > > >>
> > > > >> >I recently finished my build and everything (tuning, RX audio)
> > works
> > > > >> >great
> > > > >> >except that I cannot get any TX power out, and I hear my
> > microphone
> > > > >> >audio
> > > > >> >in my headphones when I key up. Is there an common boo-boo
> > that results
> > > > >> >in
> > > > >> >this? I'm thinking I may have a short in T5 (but would like to
> > hear
> > > > >> >some
> > > > >> >ideas first, before rewinding it). Maybe I have a problem with
> > Q3 and
> > > > >> >TX
> > > > >> >voltage keying, but again, I wanted to check and see if there is a
> > > > >> >well-known goof-up.
> > > > >> >
> > > > >> > Greg
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> > > > >> Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date:
> > > > >> 03/28/09
> > > > >> 07:16:00
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793. MKars80

Yahoo group: mkars80
Date: 2009-04-09 14:23:22 UTC
From: graham.bloor
Topic: 793 Message: 793

Hello, anyone out there keen enough to organise an MKars80-net , maybe suggest a freq etc. must be quite a few rigs. working now. Graham G3UD

794. Re: [mkars80] MKars80

Yahoo group: mkars80
Date: 2009-04-09 14:39:54 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 793 Message: 794

There already is an MKARS80 net.

graham.bloor wrote:
> Hello, anyone out there keen enough to organise an MKars80-net , maybe suggest a freq etc. must be quite a few rigs. working now. Graham G3UD
>

795. Re: MKars80

Yahoo group: mkars80
Date: 2009-04-09 16:04:45 UTC
From: graham.bloor
Topic: 793 Message: 795

Hi Nigel, could you give details and is it in the UK or USA--- In mkars80@yahoogroups.co.uk, Nigel Gunn G8IFF/W8IFF <nigel@...> wrote:
>
> There already is an MKARS80 net.
>
> graham.bloor wrote:
> > Hello, anyone out there keen enough to organise an MKars80-net , maybe suggest a freq etc. must be quite a few rigs. working now. Graham G3UD
> >
>

796. Re: [mkars80] Re: MKars80

Yahoo group: mkars80
Date: 2009-04-09 16:12:35 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 793 Message: 796

It's in the UK, I believe on Saturday mornings.
Search this group for previous discussions.

I'm in the US so can't hear it.

graham.bloor wrote:
> Hi Nigel, could you give details and is it in the UK or USA--- In mkars80@..., Nigel Gunn G8IFF/W8IFF <nigel@...> wrote:
>> There already is an MKARS80 net.
>

797. Re: CW adapter availability

Yahoo group: mkars80
Date: 2009-04-09 19:35:31 UTC
From: g3oth
Topic: 786 Message: 797

Hi Steve and All
I finished assembling the CW adapter and Auto-keyer yesterday and all parts supplied were as usual complete in every detail and everything went together as per the manual and the kit worked first time. I have photographed each stage and posted these in the Photos section of this Group pending your approval. The auto keyer operates very well but there are still a lot of modes which I need to try out yet after I have fully digested the DL4YHF manual. Thank you again for designing and supplying this very interesting kit.
Have a Happy Easter and 73 de Charles G3OTH

-- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@...> wrote:
>
> Hi Steve and Val
> I received the CW adapter kit you sent me this morning. I have already downloaded and printed out the manual you posted in the files section last night. Everything looks fine so hope to start assembling things here tonight.
> Many thanks again Charles G3OTH
>
> -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > OK, the CW adapter is available but I only want to let the first batch go to UK builders how are able to build it over the next week or so.
> >
> > The reason for this is that I've only had one Beta builder give me reports on its function, whilst I'm confident of the design I'm always aware that others might want levels etc. setting differently to me.
> >
> > If anyone would like to purchase one and give me some quick feedback then please send me an email.
> >
> > Cost for these first kits will be £25 + £3 postage payable by Paypal or cheque, these kits include the keyer option; the first batch (10 parts) have taken Val and myself most of today to kit so we will be reviewing the cost for the next batch.
> >
> > To make kitting easier I'm thinking of doing away with the keyer option and including this as standard, I will also be looking to rationalise component values (mainly resistors) to make kitting easier.
> >
> > The manual (version V1.1) will be posted in the group files section later.
> >
> > Regards,
> > Steve G6ALU
> >
> > [Non-text portions of this message have been removed]
> >
>

798. Re: [mkars80] Re: MKars80

Yahoo group: mkars80
Date: 2009-04-09 20:44:17 UTC
From: Steve Drury
Topic: 793 Message: 798

Afternoon Nigel,

We don't have a regular net, its hard for me to arrange one every week as I'm often either shopping or taxi-ing.

If some one wants to organise a net please feel free to do so, I always manage to pick the wrong time and either the band is dead or Europe wipes us out!

Regards,
Steve G6ALU

----- Original Message -----
From: "Nigel Gunn G8IFF/W8IFF" <nigel@...>
To: <mkars80@...>
Sent: Thursday, April 09, 2009 5:12 PM
Subject: Re: [mkars80] Re: MKars80

> It's in the UK, I believe on Saturday mornings.
> Search this group for previous discussions.
>
> I'm in the US so can't hear it.
>
>
> graham.bloor wrote:
>> Hi Nigel, could you give details and is it in the UK or USA--- In
>> mkars80@..., Nigel Gunn G8IFF/W8IFF <nigel@...> wrote:
>>> There already is an MKARS80 net.
>>
>
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> ------------------------------------
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> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.49/2050 - Release Date: 04/09/09 10:27:00

799. Re: [mkars80] Re: CW adapter availability

Yahoo group: mkars80
Date: 2009-04-09 20:48:27 UTC
From: Steve Drury
Topic: 786 Message: 799

Thanks for the report Charles,

Thats three positive reports so far although only one has used it for any length of time. General release gets closer!

Photos have been aproved so all can see them on the group - there doesn't look like many components in it but as Val M6FLO (XYL and owner of Radio-Kits) knows there are quite a few!

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Thursday, April 09, 2009 8:35 PM
Subject: [mkars80] Re: CW adapter availability

Hi Steve and All
I finished assembling the CW adapter and Auto-keyer yesterday and all parts supplied were as usual complete in every detail and everything went together as per the manual and the kit worked first time. I have photographed each stage and posted these in the Photos section of this Group pending your approval. The auto keyer operates very well but there are still a lot of modes which I need to try out yet after I have fully digested the DL4YHF manual. Thank you again for designing and supplying this very interesting kit.
Have a Happy Easter and 73 de Charles G3OTH

-- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> Hi Steve and Val
> I received the CW adapter kit you sent me this morning. I have already
> downloaded and printed out the manual you posted in the files section last
> night. Everything looks fine so hope to start assembling things here
> tonight.
> Many thanks again Charles G3OTH
>
> -- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > OK, the CW adapter is available but I only want to let the first batch
> > go to UK builders how are able to build it over the next week or so.
> >
> > The reason for this is that I've only had one Beta builder give me
> > reports on its function, whilst I'm confident of the design I'm always
> > aware that others might want levels etc. setting differently to me.
> >

> > If anyone would like to purchase one and give me some quick feedback
> > then please send me an email.
> >
> > Cost for these first kits will be ?25 + ?3 postage payable by Paypal or
> > cheque, these kits include the keyer option; the first batch (10 parts)
> > have taken Val and myself most of today to kit so we will be reviewing
> > the cost for the next batch.
> >
> > To make kitting easier I'm thinking of doing away with the keyer option
> > and including this as standard, I will also be looking to rationalise
> > component values (mainly resistors) to make kitting easier.
> >
> > The manual (version V1.1) will be posted in the group files section
> > later.
> >
> > Regards,
> > Steve G6ALU
> >
> > [Non-text portions of this message have been removed]
> >
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.49/2050 - Release Date: 04/09/09
10:27:00

800. 40M Version ?

Yahoo group: mkars80
Date: 2009-04-10 15:47:06 UTC
From: g3vfp
Topic: 800 Message: 800

Hi

Is there any development on a 40 metre version ?

Cheers

Dave

801. Frequency out of spec

Yahoo group: mkars80
Date: 2009-04-10 20:21:05 UTC
From: Jon Carp
Topic: 801 Message: 801

Hi all

Well I finally did it and built the kit. Finished off by fitting the display this evening.

The good news is no smoke, the voltages are in spec and the display works.

The bad-ish news is that I can't get the frequency below about 4.1MHz.

I guess an additional trimmer can be fitted - anyone else come across this and how is it fixed?

Cheers

Jon
G8XFT

[Non-text portions of this message have been removed]

802. Re: [mkars80] Frequency out of spec

Yahoo group: mkars80
Date: 2009-04-10 20:43:35 UTC
From: DAVID CLENCH
Topic: 801 Message: 802

Hi
I had same problem and I rewound L5 and it cured it.

Regards

Dave G0BVV

From: Jon Carp <joncarp@...>
To: mkars80@...
Sent: Friday, 10 April, 2009 9:21:05 PM
Subject: [mkars80] Frequency out of spec

Hi all

Well I finally did it and built the kit. Finished off by fitting the display this evening.

The good news is no smoke, the voltages are in spec and the display works.

The bad-ish news is that I can't get the frequency below about 4.1MHz.

I guess an additional trimmer can be fitted - anyone else come across this and how is it fixed?

Cheers

Jon
G8XFT

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

803. Re: [mkars80] Frequency out of spec

Yahoo group: mkars80
Date: 2009-04-10 20:59:33 UTC
From: Jon Carp
Topic: 801 Message: 803

Ta - I'll give that a try.

At 21:43 10/04/2009, you wrote:

>Hi
>I had same problem and I rewound L5 and it cured it.
>
>Regards
>
>Dave G0BVV
>
>_____
>From: Jon Carp <<mailto:joncarp%40techie.com>joncarp@...>
>To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
>Sent: Friday, 10 April, 2009 9:21:05 PM
>Subject: [mkars80] Frequency out of spec
>
>Hi all
>
>Well I finally did it and built the kit. Finished off by fitting the
>display this evening.
>
>The good news is no smoke, the voltages are in spec and the display
>works.
>
>The bad-ish news is that I can't get the frequency below about 4.1MHz.
>
>I guess an additional trimmer can be fitted - anyone else come across
>this and how is it fixed?
>
>Cheers
>
>Jon
>G8XFT
>
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>

[Non-text portions of this message have been removed]

804. MKARS80 Dead Rx

Yahoo group: mkars80
Date: 2009-04-11 09:19:59 UTC
From: clayro
Topic: 804 Message: 804

To anyone who has an apparently dead Rx,some of the 1N4148 diodes have turned out to be faulty, resembling a resistor rather than a diode.This can prevent the diode mixer from working correctly with the result of weak signal reception.Suggest checking them before fitting.
Bob.

805. Re: [mkars80] Frequency out of spec

Yahoo group: mkars80
Date: 2009-04-11 10:45:08 UTC
From: Jon Carp
Topic: 801 Message: 805

Well I rewound it again, 40 turns per the instructions and it's still
4.308MHz which is exactly what it was before - not the 4.1 that I
mistakenly wrote previously.

So does it need more turns, fewer or an extra trimmer on the tuning cap?

(And yes, I do know the formula but it's so long since I did any
electronic stuff that my brain's gone to mush!) :)

At 21:43 10/04/2009, you wrote:

>Hi
>I had same problem and I rewound L5 and it cured it.
>
>Regards
>
>Dave G0BVV
>
>_____
>From: Jon Carp <<mailto:joncarp%40techie.com>joncarp@...>
>To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
>Sent: Friday, 10 April, 2009 9:21:05 PM
>Subject: [mkars80] Frequency out of spec
>
>Hi all
>
>Well I finally did it and built the kit. Finished off by fitting the
>display this evening.
>
>The good news is no smoke, the voltages are in spec and the display
>works.
>
>The bad-ish news is that I can't get the frequency below about 4.1MHz.
>
>I guess an additional trimmer can be fitted - anyone else come across
>this and how is it fixed?
>
>Cheers
>
>Jon
>G8XFT
>
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806. Re: [mkars80] Frequency out of spec

Yahoo group: mkars80
Date: 2009-04-11 13:08:37 UTC
From: DAVID CLENCH
Topic: 801 Message: 806

Hi again Jon

Have you tried adjusting the orange trimmer C38?

Regards

dave G0BVV

From: Jon Carp <joncarp@techie.com>
To: mkars80@...
Sent: Saturday, 11 April, 2009 11:45:08 AM
Subject: Re: [mkars80] Frequency out of spec

Well I rewound it again, 40 turns per the instructions and it's still
4.308MHz which is exactly what it was before - not the 4.1 that I
mistakenly wrote previously.

So does it need more turns, fewer or an extra trimmer on the tuning cap?

(And yes, I do know the formula but it's so long since I did any
electronic stuff that my brain's gone to mush!) :)

At 21:43 10/04/2009, you wrote:

>Hi
>I had same problem and I rewound L5 and it cured it.
>
>Regards
>
>Dave G0BVV
>
>_____ _____ _____ ___
>From: Jon Carp <<mailto:joncarp% 40techie. com>joncarp@techie. com>
>To: <mailto:mkars80% 40yahoogroups. co.uk>mkars80@yahoogroups .co.uk
>Sent: Friday, 10 April, 2009 9:21:05 PM
>Subject: [mkars80] Frequency out of spec
>
>Hi all
>
>Well I finally did it and built the kit. Finished off by fitting the
>display this evening.
>
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>works.
>
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>
>I guess an additional trimmer can be fitted - anyone else come across
>this and how is it fixed?
>
>Cheers
>
>Jon
>G8XFT
>
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>

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[Non-text portions of this message have been removed]

807. Re: [mkars80] Frequency out of spec

Yahoo group: mkars80
Date: 2009-04-11 13:34:25 UTC
From: Steve Drury
Topic: 801 Message: 807

Jon,

Have you followed the instructions and adjusted the orange preset? If all parts are in the right place and the inductor has the correct number of turns then there are probably two options:

Remove a couple of turns from the inductor or I can send you another core to rewind a new one.

To my knowledge there haven't been any components cause problems in this area.

Regards,
Steve G6ALU

----- Original Message -----
From: "Jon Carp" <joncarp@...>
To: <mkars80@...>
Sent: Saturday, April 11, 2009 11:45 AM
Subject: Re: [mkars80] Frequency out of spec

> Well I rewound it again, 40 turns per the instructions and it's still
> 4.308MHz which is exactly what it was before - not the 4.1 that I
> mistakenly wrote previously.
>
> So does it need more turns, fewer or an extra trimmer on the tuning cap?
>
> (And yes, I do know the formula but it's so long since I did any
> electronic stuff that my brain's gone to mush!) :)
>
>
> At 21:43 10/04/2009, you wrote:
>
>
>>Hi
>>I had same problem and I rewound L5 and it cured it.
>>
>>Regards
>>
>>Dave G0BVV
>>
>>_____
>>From: Jon Carp <<mailto:joncarp%40techie.com>joncarp@...>
>>To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
>>Sent: Friday, 10 April, 2009 9:21:05 PM
>>Subject: [mkars80] Frequency out of spec

>>
>>Hi all
>>
>>Well I finally did it and built the kit. Finished off by fitting the
>>display this evening.
>>
>>The good news is no smoke, the voltages are in spec and the display
>>works.
>>
>>The bad-ish news is that I can't get the frequency below about 4.1MHz.
>>
>>I guess an additional trimmer can be fitted - anyone else come across
>>this and how is it fixed?
>>
>>Cheers
>>
>>Jon
>>G8XFT
>>
>>[Non-text portions of this message have been removed]
>>
>>[Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.52/2053 - Release Date: 04/10/09
18:27:00

808. Re: [mkars80] MKARS80 Dead Rx

Yahoo group: mkars80
Date: 2009-04-11 13:51:44 UTC
From: Steve Drury
Topic: 804 Message: 808

I always get very concerned when I hear reports of poor quality so I've checked the current stock of diodes.

They come in boxes of 5k manufactured by ROHM, this box is about half used so there are at least 100 kits shipped using them. I checked 250 diodes for reverse leakage on my AVO M2007 digi meter, none registered so were > 30M Ohm. I then tested a sample of abot 20 (at random) for forward voltage and all were within about 20mV.

From this I conclude the parts we are currently supplying are of good quality.

Can you read the numbers on the diodes you have Bob? All the numbers including the date code would be helpfull.

Thanks,
Steve G6ALU

----- Original Message -----
From: "clayro" <clayro@...>
To: <mkars80@...>
Sent: Saturday, April 11, 2009 10:19 AM
Subject: [mkars80] MKARS80 Dead Rx

> To anyone who has an apparently dead Rx,some of the 1N4148 diodes have
> turned out to be faulty, resembling a resistor rather than a diode.This
> can prevent the diode mixer from working correctly with the result of weak
> signal reception.Suggest checking them before fitting.
> Bob.
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.52/2053 - Release Date: 04/10/09 18:27:00

809. Re: [mkars80] MKARS80 Dead Rx

Yahoo group: mkars80
Date: 2009-04-11 13:36:50 UTC
From: Steve Drury
Topic: 804 Message: 809

I'm suprised to read this Bob, as the 1N4148s come in a VERY large box I'm still probably using the same ones.

How long agao did you receive your kit?

Also please advise what meter you are using to measure the diodes and what leakage you are observing.

Steve G6ALU

----- Original Message -----
From: "clayro" <clayro@...>
To: <mkars80@...>
Sent: Saturday, April 11, 2009 10:19 AM
Subject: [mkars80] MKARS80 Dead Rx

> To anyone who has an apparently dead Rx,some of the 1N4148 diodes have
> turned out to be faulty, resembling a resistor rather than a diode.This
> can prevent the diode mixer from working correctly with the result of weak
> signal reception.Suggest checking them before fitting.
> Bob.
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.52/2053 - Release Date: 04/10/09 18:27:00

810. Re: [mkars80] MKARS80 Dead Rx

Yahoo group: mkars80
Date: 2009-04-11 14:20:45 UTC
From: David
Topic: 804 Message: 810

I have used thousands of 1N4148 diodes over the years in both
commercial, and
ham projects. I too use ROHM, and have never found a faulty one yet. I know
someone who used zenners at one time by mistake in a switching matrix,
and that was fun :-).
I would be amazed if anyone else confirmed Bob's problem, truly. Velly
stlange :-).

Cheers Steve

Dave G3VFP

On 11/04/2009 14:36:50, Steve Drury (g6alu@...) wrote:
> I'm suprised to read this Bob, as the 1N4148s come in a VERY large
box I'm
>
> still probably using the same ones.
>
> How long agao did you receive your kit?
>
> Also please advise what meter you are using to measure the diodes and
what
>
> leakage you are observing.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "clayro"
> To:
> Sent: Saturday, April 11, 2009 10:19 AM
> Subject: [mkars80] MKARS80 Dead Rx
>
>
> > To anyone who has an apparently dead Rx,some of the 1N4148 diodes have
> > turned out to be faulty, resembling a resistor rather than a
diode.This
>
> > can prevent the diode mixer from working correctly with the result
of weak

811. Re: [mkars80] Frequency out of spec

Yahoo group: mkars80
Date: 2009-04-11 15:40:22 UTC
From: Jon Carp
Topic: 801 Message: 811

Aha! There we go! Would help if I'd read it properly! Spot on now -
thanks guys.

At 14:34 11/04/2009, you wrote:

>Jon,
>
>Have you followed the instructions and adjusted the orange preset? If all
>parts are in the right place and the inductor has the correct number of
>turns then there are probably two options:
>
>Remove a couple of turns from the inductor or I can send you another core to
>rewind a new one.
>
>To my knowledge there haven't been any components cause problems in this
>area.
>
>Regards,
>Steve G6ALU
>
>----- Original Message -----
>From: "Jon Carp" <<mailto:joncarp%40techie.com>joncarp@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Saturday, April 11, 2009 11:45 AM
>Subject: Re: [mkars80] Frequency out of spec
>
> > Well I rewound it again, 40 turns per the instructions and it's still
> > 4.308MHz which is exactly what it was before - not the 4.1 that I
> > mistakenly wrote previously.
> >
> > So does it need more turns, fewer or an extra trimmer on the tuning cap?
> >
> > (And yes, I do know the formula but it's so long since I did any
> > electronic stuff that my brain's gone to mush!) :)
> >
> >
> > At 21:43 10/04/2009, you wrote:
> >
> >
> >>Hi
> >>I had same problem and I rewound L5 and it cured it.
> >>
> >>Regards
> >>
> >>Dave G0BVV

> >>
> >>_____
> >>From: Jon Carp <<mailto:joncarp%40techie.com>joncarp@...>
> >>To: <mailto:mkars80%40yahoogroups.co.uk>mkars80@...
> >>Sent: Friday, 10 April, 2009 9:21:05 PM
> >>Subject: [mkars80] Frequency out of spec
> >>
> >>Hi all
> >>
> >>Well I finally did it and built the kit. Finished off by fitting the
> >>display this evening.
> >>
> >>The good news is no smoke, the voltages are in spec and the display
> >>works.
> >>
> >>The bad-ish news is that I can't get the frequency below about 4.1MHz.
> >>
> >>I guess an additional trimmer can be fitted - anyone else come across
> >>this and how is it fixed?
> >>
> >>Cheers
> >>
> >>Jon
> >>G8XFT
> >>
> >>[Non-text portions of this message have been removed]
> >>
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> > [Non-text portions of this message have been removed]
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>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.0.238 / Virus Database: 270.11.52/2053 - Release Date: 04/10/09
>18:27:00
>

>

[Non-text portions of this message have been removed]

812. Re: MKARS80 Dead Rx

Yahoo group: mkars80
Date: 2009-04-11 19:54:05 UTC
From: panzerbeeb
Topic: 804 Message: 812

Hi Steve,

I had the problem that Bob refers to, I found the sensitivity was somewhat lower than I expected. While I was prodding around the front end and mixer area I was a bit surprised to find a fair amount of vfo signal at the rf input to T4. I immediately suspected that I had not wound T4 properly, despite checking it at all the fitting stages. Looking with the scope around T4 showed a very asymetrical vfo waveform just about everywhere, and around 350mV dc on the T4 ends of diodes D12-15. I removed T4 and measured the diode pairs with a Fluke DMM, and found a reading of 215 ohms on one pair. Lifting one end of D14 I measured it as a 215 ohm resistor?? Wow, I've worked in electronics for 40 years or so, and I've never met a duff IN4148 before! I can't explain it, and the culprit is no longer with us, perhaps I should have framed it. Replacing D14 with one of my stock and refitting T4 improved things dramatically. I changed the other 3 diodes as well from the same batch later, as the mixer balance wasn't as good as it could be.
The kit was one of those that were supplied through the NARC earlier this year, I have to say a very nice, clean kit to build, very impressed, and the performance is good too. I don't think you need to lose any sleep over the component quality, I think my dodgy diode was just one of those spooky things that are out to confuse things in life.

Mike G8EEY
--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> I'm suprised to read this Bob, as the 1N4148s come in a VERY large box I'm
> still probably using the same ones.
>
> How long agao did you receive your kit?
>
> Also please advise what meter you are using to measure the diodes and what
> leakage you are observing.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "clayro" <clayro@...>
> To: <mkars80@...>
> Sent: Saturday, April 11, 2009 10:19 AM
> Subject: [mkars80] MKARS80 Dead Rx
>
>
> > To anyone who has an apparently dead Rx,some of the 1N4148 diodes have
> > turned out to be faulty, resembling a resistor rather than a diode.This
> > can prevent the diode mixer from working correctly with the result of weak
> > signal reception.Suggest checking them before fitting.
> > Bob.
> >

> >
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> Version: 8.0.238 / Virus Database: 270.11.52/2053 - Release Date: 04/10/09
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>

813. Re: [mkars80] MKARS80 Dead Rx

Yahoo group: mkars80
Date: 2009-04-11 21:41:08 UTC
From: Steve Drury
Topic: 804 Message: 813

> I would be amazed if anyone else confirmed Bob's problem, truly. Velly
> stlange :-).

As it happens someone has come forward having found a leaky diode - Bob please come back with your date of purchase please as I don't know your full name so can't look it up!

I will check the diodes we send out for a while although I know those supplied in the next few kits are OK - I tested them today!

I expect a leaky diode to be one of the least likely causes of any problems but if you have a deaf radio (or are unable to null the carrier on the BFO adjustment) and have eliminated other possible causes please lift one end of each diode and check for leakage in the REVERSE direction.

Steve G6ALU

814. MKARS80 Nearly Alive - hiss in audio output

Yahoo group: mkars80
Date: 2009-04-11 22:25:24 UTC
From: pskb195
Topic: 814 Message: 814

Hi all,

Received my kit just over a week ago and after following the excellent instructions I'm nearly there.

I do have one problem. There is a permanent hiss on the output that is quite loud. Has anyone come across this before and if so any thoughts on how to fix it.

Any thoughts would be appreciated.

As an aside I have to also say what a great kit this is. The instructions are great and the way the bags are put together makes it very easy to get going.

Thanks in advance.

Phil

815. Re: [mkars80] MKARS80 Nearly Alive - hiss in audio output

Yahoo group: mkars80
Date: 2009-04-11 22:30:21 UTC
From: Steve Drury
Topic: 814 Message: 815

Phil,

There is always a slight hiss from the speaker due to noise generated within the LM386 audio amp (due to it being used in high gain mode).

I repaired an MKARS80 earlier which also had a loud hiss, I found this due to 10MHz getting into the audio amp - the culprit was an incorrectly wound TR5, embarrassingly this was wound by myself! Another symptom was the receiver was also deaf.

Steve G6ALU

----- Original Message -----
From: "pskb195" <philip.booker@...>
To: <mkars80@...>
Sent: Saturday, April 11, 2009 11:25 PM
Subject: [mkars80] MKARS80 Nearly Alive - hiss in audio output

> Hi all,
>
> Received my kit just over a week ago and after following the excellent
> instructions I'm nearly there.
>
> I do have one problem. There is a permanent hiss on the output that is
> quite loud. Has anyone come across this before and if so any thoughts on
> how to fix it.
>
> Any thoughts would be appreciated.
>
> As an aside I have to also say what a great kit this is. The instructions
> are great and the way the bags are put together makes it very easy to get
> going.
>
> Thanks in advance.
>
> Phil
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.52/2053 - Release Date: 04/10/09
18:27:00

816. [mkars80] MKARS80 totally deaf

Yahoo group: mkars80
Date: 2009-04-11 22:38:19 UTC
From: Jon Carp
Topic: 814 Message: 816

Hi Steve et al

Well the saga continues. I now have the frequency reading correctly so went to set up the BFO - and I have no received signals at all.

I have tried generating a few milliwatts of RF from my Yaesu box and I'd expect to pick "something" up but nothing at all - just gentle background his from the audio stages.

Would I be correct in first suspecting the diode ring? It looks like the diodes are in correctly.

Jon

817. Re: MKARS80 Nearly Alive - hiss in audio output

Yahoo group: mkars80
Date: 2009-04-11 22:39:02 UTC
From: pskb195
Topic: 814 Message: 817

Steve,

Thanks for the quick response that's a great help. I've played with the receiver and managed to tune into a couple of stations so I don't think it's deaf...

I'll have a look at TR5 and check that I've not made a mistake.

Once again great kit.

Thanks

Phil

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Phil,
>
> There is always a slight hiss from the speaker due to noise generated within
> the LM386 audio amp (due to it being used in high gain mode).
>
> I repaired an MKARS80 earlier which also had a loud hiss, I found this due
> to 10MHz getting into the audio amp - the culprit was an incorrectly wound
> TR5, embarrassingly this was wound by myself! Another symptom was the
> receiver was also deaf.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pskb195" <philip.booker@...>
> To: <mkars80@...>
> Sent: Saturday, April 11, 2009 11:25 PM
> Subject: [mkars80] MKARS80 Nearly Alive - hiss in audio output
>
>
> > Hi all,
> >
> > Received my kit just over a week ago and after following the excellent
> > instructions I'm nearly there.
> >
> > I do have one problem. There is a permanent hiss on the output that is
> > quite loud. Has anyone come across this before and if so any thoughts on
> > how to fix it.
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> > Any thoughts would be appreciated.
> >
> > As an aside I have to also say what a great kit this is. The instructions

> > are great and the way the bags are put together makes it very easy to get
> > going.
> >
> > Thanks in advance.
> >
> > Phil
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> 18:27:00
>

818. Re: [mkars80] Re: MKARS80 Nearly Alive - hiss in audio output

Yahoo group: mkars80
Date: 2009-04-11 22:50:31 UTC
From: Steve Drury
Topic: 814 Message: 818

Set up the transmit side (BFO and TX output bias) then test transmit - if
you get full power then the transformers are OK.

Regards,
Steve G6ALU

----- Original Message -----
From: "pskb195" <philip.booker@...>
To: <mkars80@...>
Sent: Saturday, April 11, 2009 11:39 PM
Subject: [mkars80] Re: MKARS80 Nearly Alive - hiss in audio output

> Steve,
>
> Thanks for the quick response that's a great help. I've played with the
> receiver and managed to tune into a couple of stations so I don't think
> it's deaf...
>
> I'll have a look at TR5 and check that I've not made a mistake.
>
> Once again great kit.
>
> Thanks
>
> Phil
>
>
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Phil,
>>
>> There is always a slight hiss from the speaker due to noise generated
>> within
>> the LM386 audio amp (due to it being used in high gain mode).
>>
>> I repaired an MKARS80 earlier which also had a loud hiss, I found this
>> due
>> to 10MHz getting into the audio amp - the culprit was an incorrectly
>> wound
>> TR5, embarrassingly this was wound by myself! Another symptom was the
>> receiver was also deaf.
>>
>> Steve G6ALU

>>
>> ----- Original Message -----
>> From: "pskb195" <philip.booker@...>
>> To: <mkars80@...>
>> Sent: Saturday, April 11, 2009 11:25 PM
>> Subject: [mkars80] MKARS80 Nearly Alive - hiss in audio output
>>
>>
>> > Hi all,
>> >
>> > Received my kit just over a week ago and after following the excellent
>> > instructions I'm nearly there.
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>> > I do have one problem. There is a permanent hiss on the output that is
>> > quite loud. Has anyone come across this before and if so any thoughts
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18:27:00

819. Re: [mkars80] Re: MKARS80 Dead Rx

Yahoo group: mkars80
Date: 2009-04-11 21:35:29 UTC
From: Steve Drury
Topic: 804 Message: 819

Thanks for letting me know Mike, all the parts are from good quality industry sources - Farnell, Rapid, RS etc so I'm suprised that 1N4148s are faulty.

I will advise the group...

Steve G6ALU

----- Original Message -----
From: "panzerbeeb" <mike_mobbs@...>
To: <mkars80@...>
Sent: Saturday, April 11, 2009 8:54 PM
Subject: [mkars80] Re: MKARS80 Dead Rx

> Hi Steve,
>
> I had the problem that Bob refers to, I found the sensitivity was somewhat
> lower than I expected. While I was prodding around the front end and mixer
> area I was a bit surprised to find a fair amount of vfo signal at the rf
> input to T4. I immediately suspected that I had not wound T4 properly,
> despite checking it at all the fitting stages. Looking with the scope
> around T4 showed a very asymetrical vfo waveform just about everywhere,
> and around 350mV dc on the T4 ends of diodes D12-15. I removed T4 and
> measured the diode pairs with a Fluke DMM, and found a reading of 215 ohms
> on one pair. Lifting one end of D14 I measured it as a 215 ohm resistor??
> Wow, I've worked in electronics for 40 years or so, and I've never met a
> duff IN4148 before! I can't explain it, and the culprit is no longer with
> us, perhaps I should have framed it. Replacing D14 with one of my stock
> and refitting T4 improved things dramatically. I changed the other 3
> diodes as well from the same batch later, as the mixer
> balance wasn't as good as it could be.
> The kit was one of those that were supplied through the NARC earlier this
> year, I have to say a very nice, clean kit to build, very impressed, and
> the performance is good too. I don't think you need to lose any sleep over
> the component quality, I think my dodgy diode was just one of those spooky
> things that are out to confuse things in life.
>
> Mike G8EEY
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> I'm suprised to read this Bob, as the 1N4148s come in a VERY large box
>> I'm
>> still probably using the same ones.
>>
>> How long agao did you receive your kit?
>>

>> Also please advise what meter you are using to measure the diodes and
>> what
>> leakage you are observing.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "clayro" <clayro@...>
>> To: <mkars80@...>
>> Sent: Saturday, April 11, 2009 10:19 AM
>> Subject: [mkars80] MKARS80 Dead Rx
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>> > To anyone who has an apparently dead Rx,some of the 1N4148 diodes have
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820. Re: MKARS80 Nearly Alive - hiss in audio output

Yahoo group: mkars80
Date: 2009-04-11 23:19:10 UTC
From: pskb195
Topic: 814 Message: 820

Steve,

Thanks again for that. I'll try that one tomorrow morning.

Cheers

Phil

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Set up the transmit side (BFO and TX output bias) then test transmit - if
> you get full power then the transformers are OK.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "pskb195" <philip.booker@...>
> To: <mkars80@...>
> Sent: Saturday, April 11, 2009 11:39 PM
> Subject: [mkars80] Re: MKARS80 Nearly Alive - hiss in audio output
>
>
> > Steve,
> >
> > Thanks for the quick response that's a great help. I've played with the
> > receiver and managed to tune into a couple of stations so I don't think
> > it's deaf...
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> > I'll have a look at TR5 and check that I've not made a mistake.
> >
> > Once again great kit.
> >
> > Thanks
> >
> > Phil
> >
> >
> >
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> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Phil,
> >>
> >> There is always a slight hiss from the speaker due to noise generated

> >> within
> >> the LM386 audio amp (due to it being used in high gain mode).
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> >> TR5, embarrassingly this was wound by myself! Another symptom was the
> >> receiver was also deaf.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "pskb195" <philip.booker@>
> >> To: <mkars80@...>
> >> Sent: Saturday, April 11, 2009 11:25 PM
> >> Subject: [mkars80] MKARS80 Nearly Alive - hiss in audio output
> >>
> >>
> >> > Hi all,
> >> >
> >> > Received my kit just over a week ago and after following the excellent
> >> > instructions I'm nearly there.
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> >> > I do have one problem. There is a permanent hiss on the output that is
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> >> Version: 8.0.238 / Virus Database: 270.11.52/2053 - Release Date:
> >> 04/10/09
> >> 18:27:00
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.52/2053 - Release Date: 04/10/09
> 18:27:00
>

821. Re: [mkars80] MKARS80 totally deaf

Yahoo group: mkars80
Date: 2009-04-11 22:48:07 UTC
From: Steve Drury
Topic: 814 Message: 821

Jon,
Don't automatically suspect the diodes - 1N4148s are normally very reliable and if you purchased the radio in the last few weeks they are from the current batch which look OK.

As you have a correct frequency display that means the BFO and VFO are OK, try touching the non grounded ends of D19 and D20, you normally get a loud crackle / buzz.

First thing to do on a dead receiver is measure all the transistor voltages, this will point to a DC problem if any are incorrect. You may also like to check to see if the transformers have been soldered in properly; it is common for the enamel to have not burned off the enamelled copper wires.

Let me know how you get on,

Steve G6ALU

----- Original Message -----
From: "Jon Carp" <joncarp@...>
To: <mkars80@...>
Sent: Saturday, April 11, 2009 11:38 PM
Subject: [mkars80] MKARS80 totally deaf

> Hi Steve et al
>
> Well the saga continues. I now have the frequency reading correctly
> so went to set up the BFO - and I have no received signals at all.
>
> I have tried generating a few milliwatts of RF from my Yaesu box and
> I'd expect to pick "something" up but nothing at all - just gentle
> background his from the audio stages.
>
> Would I be correct in first suspecting the diode ring? It looks like
> the diodes are in correctly.
>
> Jon
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

>

822. Re:1N4148

Yahoo group: mkars80
Date: 2009-04-12 07:59:20 UTC
From: Master Ice
Topic: 804 Message: 822

Hi all.
Just a quicky re the diode problem.
I have come across 1N4148 and similar diodes suffering quite quickly from prolonged application of the soldering iron when fixing into a pcb.
The usual effect is a change in reverse resistance when measured on an AVO or similar 'proper' meter LOL

So keep the soldering time as short as possible.

Hope this might help

SLim
G4IPZ

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Thanks for letting me know Mike, all the parts are from good quality
> industry sources - Farnell, Rapid, RS etc so I'm suprised that 1N4148s are
> faulty.
>
> I will advise the group...
>
> Steve G6ALU
>

823. badly off frequency

Yahoo group: mkars80
Date: 2009-04-12 20:47:22 UTC
From: byling4
Topic: 823 Message: 823

Hi all,..i've just finished building the kit checking voltages and having fitted the LCD it displays 2.000.000 HZ,...adjusting the C38 makes no change to the freq,..any one got ANY ideas of where I should start looking for faults,....Thanks,..Colin gm7tfn

824. Microphone wanted

Yahoo group: mkars80
Date: 2009-04-12 21:04:41 UTC
From: philg7bzd@btinternet.com
Topic: 824 Message: 824

Hi all.

Am after a microphone, the only ones down at my local Maplins would have cost me more than the radio, Pc world are no better.
Have tried my mic from my Icom271 (its an electret), but it sounds a bit ragged around the edges when listened to on another set, LED does indicate correctly as per the manual.
It may be RF, as its not yet boxed, have started drilling the case.
I cannot find a pound shop locally....

Regards
Phil G7BZD

825. Re: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-12 21:42:07 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 824 Message: 825

An electret capsule (FS43W) is only ?2.49.
Although the web site says it's out of stock you local store might have them.
I'm sure you can invent some way to mount it.

philg7bzd@... wrote:
> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit ragged around the edges when listened to on another set, LED does indicate correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>

826. Re: Microphone wanted

Yahoo group: mkars80
Date: 2009-04-12 21:45:09 UTC
From: Jerry A Bligh
Topic: 824 Message: 826

Hi all

I also have this problem, I am looking for a friend who has already bought a suitable mike to purchase one for me and post it to me at my expense as I am unable to source one in Guernsey.

I have three now that I have online from you no where and none work properly.

If you read this Steve it might be helpful if you could supply a mic to people like me as an extra. At least we would know what we are buying would work correctly with this cracking little rig.
Just an idea.

Regards
Jerry
2U0BGE

--- In mkars80@yahoogroups.co.uk, "philg7bzd@..." <philg7bzd@...> wrote:
>
> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit ragged around the edges when listened to on another set, LED does indicate correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>

827. Re: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-12 21:56:39 UTC
From: John Housego
Topic: 824 Message: 827

Hello Phil,

An old PC mic will do the job indeed I got mine from one of these cheep shops but if you don't any of these close by have a look at Maplin www.maplin.co.uk/ they do just the eletret module for a couple of pounds and if you order anything from them before Tuesday post is free.

Look forward to working you on the MKARS80

John (M0TIF)

On Sun, 2009-04-12 at 21:04 +0000, philg7bzd@... wrote:

>
>
> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would
> have cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a
> bit ragged around the edges when listened to on another set, LED does
> indicate correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>
>
>
>
>

[Non-text portions of this message have been removed]

828. Re: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-12 22:07:33 UTC
From: JIM HENDERSON
Topic: 824 Message: 828

Regarding mic for mkars80, i just use an old cb mic and so far have had very good reports on my audio.
If you want an electret insert maplin do one the number is FS43W under £3
Regards Jim

--- On Sun, 12/4/09, John Housego <John.Housego1@...> wrote:

From: John Housego <John.Housego1@...>
Subject: Re: [mkars80] Microphone wanted
To: mkars80@yahoogroups.co.uk
Date: Sunday, 12 April, 2009, 10:56 PM

Hello Phil,

An old PC mic will do the job indeed I got mine from one of these cheep shops but if you don't any of these close by have a look at Maplin www.maplin.co. uk/ they do just the eletret module for a couple of pounds and if you order anything from them before Tuesday post is free.

Look forward to working you on the MKARS80

John (M0TIF)

On Sun, 2009-04-12 at 21:04 +0000, philg7bzd@btinterne t.com wrote:

>
>
> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would
> have cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a
> bit ragged around the edges when listened to on another set, LED does
> indicate correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>
>
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

829. Re: [mkars80] Microphone wanted :: Possible Sources

Yahoo group: mkars80
Date: 2009-04-12 22:41:20 UTC
From: Tony Olewicz
Topic: 824 Message: 829

You could always try Bardwells in Sheffield. They do mail order. That's were mine came from.
Used the other wire on the stereo connector to provide PTT with a flat click type push to make switch, they had a box of them on the counter for 80p each. The mic I got had a round base, so that's where the PTT got 'superglued' to.

http://www.bardwells.co.uk/

Bowood electronics are worth a try as well.

http://www.bowood-electronics.co.uk/

I have no financial connection with these folk, just bought loads of stuff there over many years.

73
Toni
G6XMO
Sheffield

--- On Sun, 12/4/09, JIM HENDERSON <kenpro@...> wrote:
From: JIM HENDERSON <kenpro@...>
Subject: Re: [mkars80] Microphone wanted
To: mkars80@...
Date: Sunday, 12 April, 2009, 11:07 PM

Regarding mic for mkars80, i just use an old cb mic and so far have had very good reports on my audio.

If you want an electret insert maplin do one the number is FS43W under £3

Regards Jim

--- On Sun, 12/4/09, John Housego <John.Housego1@ tiscali.co. uk> wrote:

From: John Housego <John.Housego1@ tiscali.co. uk>

Subject: Re: [mkars80] Microphone wanted

To: mkars80@yahoogroups .co.uk

Date: Sunday, 12 April, 2009, 10:56 PM

Hello Phil,

An old PC mic will do the job indeed I got mine from one of these cheep

shops but if you don't any of these close by have a look at Maplin

www.maplin.co. uk/ they do just the eletret module for a couple of pounds

and if you order anything from them before Tuesday post is free.

Look forward to working you on the MKARS80

John (M0TIF)

On Sun, 2009-04-12 at 21:04 +0000, philg7bzd@btinterne t.com wrote:

>

>

> Hi all.

>

> Am after a microphone, the only ones down at my local Maplins would

> have cost me more than the radio, Pc world are no better.

> Have tried my mic from my Icom271 (its an electret), but it sounds a

> bit ragged around the edges when listened to on another set, LED does

> indicate correctly as per the manual.

> It may be RF, as its not yet boxed, have started drilling the case.

> I cannot find a pound shop locally....

>

> Regards

> Phil G7BZD

>

>

>

>

>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

830. Re: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 08:01:04 UTC
From: PHIL YATES
Topic: 824 Message: 830

Hi All

Looks like I will be getting a Maplin insert, and yes they are in stock locally.
That other website is great for its lack of information. I think it comes down to people selling things they don't really know about. I too have been bitten in the past.

Look forward to getting the case finished and on the air.

Regards and thanks all.
Phil G7BZD

--- On Sun, 12/4/09, Nigel Gunn G8IFF/W8IFF <nigel@...> wrote:

From: Nigel Gunn G8IFF/W8IFF <nigel@...>
Subject: Re: [mkars80] Microphone wanted
To: mkars80@...
Date: Sunday, 12 April, 2009, 10:42 PM

An electret capsule (FS43W) is only £2.49.
Although the web site says it's out of stock you local store might have them.
I'm sure you can invent some way to mount it.

philg7bzd@btinterne t.com wrote:
> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit ragged around the edges when listened to on another set, LED does indicate correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>

[Non-text portions of this message have been removed]

831. Re: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 08:39:51 UTC
From: Steve Drury
Topic: 824 Message: 831

Phil,
Make sure the BFO frequency and PA bias has been set up properly before testing the audio. If using a dynamic microphone remove the bias by lifting one end of R17, alternatively fit a 1uF electrolytic capacitor in series with the microphone.

A quick search found the following from CPC CS12160 or CS13516 both are less than ?3 each but beware of CPCs handling charge on low value orders.

I could purchase some and distribute them but they would retail at some where around ?5 each, I could obtain and sell on electret capsules - these would cost about ?1 each, postage would cost the same again though! This wouldn't be a problem if ordered at time of purchase.

Steve G6ALU

----- Original Message -----
From: <philg7bzd@...>
To: <mkars80@...>
Sent: Sunday, April 12, 2009 10:04 PM
Subject: [mkars80] Microphone wanted

> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have
> cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit
> ragged around the edges when listened to on another set, LED does indicate
> correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.53/2054 - Release Date: 04/11/09
10:51:00

832. Re: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 08:46:12 UTC
From: PHIL YATES
Topic: 824 Message: 832

Hi Steve.

Did you set it all up prior to sending it back to me ?
Will be going to Maplins sometime this week, have got a whole week to play radio. Maybe even finish the case off.
We use CPC/Rapid/RS/Maplins at work so if I get desperate I can order through them.

Thanks
Phil G7BZD

--- On Mon, 13/4/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Microphone wanted
To: mkars80@yahoogroups.co.uk
Date: Monday, 13 April, 2009, 9:39 AM

Phil,
Make sure the BFO frequency and PA bias has been set up properly before testing the audio. If using a dynamic microphone remove the bias by lifting one end of R17, alternatively fit a 1uF electrolytic capacitor in series with the microphone.

A quick search found the following from CPC CS12160 or CS13516 both are less than £3 each but beware of CPCs handling charge on low value orders.

I could purchase some and distribute them but they would retail at some where around £5 each, I could obtain and sell on electret capsules - these would cost about £1 each, postage would cost the same again though! This wouldn't be a problem if ordered at time of purchase.

Steve G6ALU

----- Original Message -----
From: <philg7bzd@btinterne t.com>
To: <mkars80@yahoogroups .co.uk>
Sent: Sunday, April 12, 2009 10:04 PM
Subject: [mkars80] Microphone wanted

> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have
> cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit
> ragged around the edges when listened to on another set, LED does indicate
> correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.

> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>
>
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.53/2054 - Release Date: 04/11/09
10:51:00

[Non-text portions of this message have been removed]

833. Re: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 09:08:21 UTC
From: Steve Drury
Topic: 824 Message: 833

Yes I would have done - sorry Phil, I forgot this was one I had "looked" at!

Steve

----- Original Message -----
From: "PHIL YATES" <philg7bzd@...>
To: <mkars80@...>
Sent: Monday, April 13, 2009 9:46 AM
Subject: Re: [mkars80] Microphone wanted

Hi Steve.

Did you set it all up prior to sending it back to me ?
Will be going to Maplins sometime this week, have got a whole week to play radio. Maybe even finish the case off.
We use CPC/Rapid/RS/Maplins at work so if I get desperate I can order through them.

Thanks
Phil G7BZD

--- On Mon, 13/4/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Microphone wanted
To: mkars80@...
Date: Monday, 13 April, 2009, 9:39 AM

Phil,
Make sure the BFO frequency and PA bias has been set up properly before testing the audio. If using a dynamic microphone remove the bias by lifting one end of R17, alternatively fit a 1uF electrolytic capacitor in series with the microphone.

A quick search found the following from CPC CS12160 or CS13516 both are less than ?3 each but beware of CPCs handling charge on low value orders.

I could purchase some and distribute them but they would retail at some where around ?5 each, I could obtain and sell on electret capsules - these would cost about ?1 each, postage would cost the same again though! This wouldn't be a problem if ordered at time of purchase.

Steve G6ALU

----- Original Message -----
From: <philg7bzd@btinterne t.com>
To: <mkars80@yahoogroups .co.uk>
Sent: Sunday, April 12, 2009 10:04 PM

Subject: [mkars80] Microphone wanted

> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have
> cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit
> ragged around the edges when listened to on another set, LED does indicate
> correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.53/2054 - Release Date: 04/11/09
10:51:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.54/2056 - Release Date: 04/13/09
05:51:00

834. RE: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 09:13:36 UTC
From: Ray Stringfellow
Topic: 824 Message: 834

Hi All,

Another good source of suitable mics are your local supermarket,
they often have a computer related section and very often have cheap
headsets with mic or computer desk mics.

The only thing I would advise is to change the lead on these as the cable is
very poor.

Check out also local markets and boot sales.

Ray

[Non-text portions of this message have been removed]

835. Re: [mkars80] Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 09:15:45 UTC
From: PHIL YATES
Topic: 824 Message: 835

Never mind, we all have grey moments.
Case has been started, now I have found the right drills.

Regards
Phil G7BZD

--- On Mon, 13/4/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Microphone wanted
To: mkars80@...
Date: Monday, 13 April, 2009, 10:08 AM

Yes I would have done - sorry Phil, I forgot this was one I had "looked" at!

Steve

----- Original Message -----
From: "PHIL YATES" <philg7bzd@btinterne t.com>
To: <mkars80@yahoogroups .co.uk>
Sent: Monday, April 13, 2009 9:46 AM
Subject: Re: [mkars80] Microphone wanted

Hi Steve.

Did you set it all up prior to sending it back to me ?
Will be going to Maplins sometime this week, have got a whole week to play
radio. Maybe even finish the case off.
We use CPC/Rapid/RS/ Maplins at work so if I get desperate I can order
through them.

Thanks
Phil G7BZD

--- On Mon, 13/4/09, Steve Drury <g6alu@tiscali. co.uk> wrote:

From: Steve Drury <g6alu@tiscali. co.uk>
Subject: Re: [mkars80] Microphone wanted
To: mkars80@yahoogroups .co.uk
Date: Monday, 13 April, 2009, 9:39 AM

Phil,
Make sure the BFO frequency and PA bias has been set up properly before
testing the audio. If using a dynamic microphone remove the bias by lifting
one end of R17, alternatively fit a 1uF electrolytic capacitor in series
with the microphone.

A quick search found the following from CPC CS12160 or CS13516 both are less than £3 each but beware of CPCs handling charge on low value orders.

I could purchase some and distribute them but they would retail at some where around £5 each, I could obtain and sell on electret capsules - these would cost about £1 each, postage would cost the same again though! This wouldn't be a problem if ordered at time of purchase.

Steve G6ALU

----- Original Message -----
From: <philg7bzd@btintern e t.com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Sunday, April 12, 2009 10:04 PM
Subject: [mkars80] Microphone wanted

> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have
> cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit
> ragged around the edges when listened to on another set, LED does indicate
> correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
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> Regards
> Phil G7BZD
>
>
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No virus found in this incoming message.
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Version: 8.0.238 / Virus Database: 270.11.53/2054 - Release Date: 04/11/09 10:51:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.54/2056 - Release Date: 04/13/09
05:51:00

[Non-text portions of this message have been removed]

836. Distance

Yahoo group: mkars80
Date: 2009-04-13 10:13:01 UTC
From: jim312731
Topic: 836 Message: 836

Hi all, interested in how other users are doing so far my best contact is in to LA about 440 miles.
This little kit is amazing it brings out the true spirit of amature radio well done all.

Jim G1AOZ

837. Re: Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 12:50:13 UTC
From: allen
Topic: 824 Message: 837

--- In mkars80@..., "philg7bzd@..." <philg7bzd@...> wrote:
>
> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit ragged around the edges when listened to on another set, LED does indicate correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>

838. Re: Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 13:02:28 UTC
From: allen
Topic: 824 Message: 838

Phil

Also try Wilkingson stores, They had some branded as Texet with a 8 inch goose neck, around £2.50.

Regards
Allen
M1CXK

839. Re: Distance

Yahoo group: mkars80
Date: 2009-04-13 13:13:09 UTC
From: mark2w0jmk
Topic: 836 Message: 839

Hi Jim well i have been using the Mkars-80 for just over three weeks now and my furthest contact is 1187 miles with YL2GB plus i have had good contacts with E77DX RW2F and SP7MTF.

You are right it is an amazing radio with very good results. I would really like to have one the same for 20 meters as well.

By the way the antenna system here is an inverted L with four counterpoises running on top of the ground.

Mark 2w0jmk

--- In mkars80@yahoogroups.co.uk, "jim312731" <kenpro@...> wrote:
>
> Hi all, interested in how other users are doing so far my best contact is in to LA about 440 miles.
> This little kit is amazing it brings out the true spirit of amature radio well done all.
>
> Jim G1AOZ
>

840. Re: [mkars80] Re: Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 14:28:41 UTC
From: Steve Drury
Topic: 824 Message: 840

Sounds like our Poundland specials - 8" chrome plated gooseneck with a triangular base. If its the same type there is room for a PTT in the base + a lump of blu-tack to weight it down.

Steve G6ALU

----- Original Message -----
From: "allen" <ALLENCrdr@...>
To: <mkars80@...>
Sent: Monday, April 13, 2009 2:02 PM
Subject: [mkars80] Re: Microphone wanted

Phil

Also try Wilkingson stores, They had some branded as Texet with a 8 inch goose neck, around ?2.50.

Regards
Allen
M1CXK

Yahoo! Groups Links

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Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.54/2056 - Release Date: 04/13/09 05:51:00

841. Re: Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 15:31:47 UTC
From: mark2w0jmk
Topic: 824 Message: 841

Hi all what i did was fitted a gooseneck from an old cb desk mic to a black box from maplin and a ptt switch. But the clever thing is i fitted a small speaker into the box as well so it is all in one unit

mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Sounds like our Poundland specials - 8" chrome plated gooseneck with a
> triangular base. If its the same type there is room for a PTT in the base +
> a lump of blu-tack to weight it down.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "allen" <ALLENCrdr@...>
> To: <mkars80@...>
> Sent: Monday, April 13, 2009 2:02 PM
> Subject: [mkars80] Re: Microphone wanted
>
>
>
> Phil
>
> Also try Wilkingson stores, They had some branded as Texet with a 8 inch
> goose neck, around £2.50.
>
> Regards
> Allen
> M1CXK
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> Version: 8.0.238 / Virus Database: 270.11.54/2056 - Release Date: 04/13/09
> 05:51:00
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842. Desk Mic

Yahoo group: mkars80
Date: 2009-04-13 17:38:41 UTC
From: nakor1
Topic: 842 Message: 842

Hi Guys,

While looking for a mic I stumbled across Andys site:
http://www.2e0vpx.co.uk/mkars80.html sorry lost the link have to cut & paste it. Anyhow he uses a nice wee Maplins PC desk mic-
His mic costs £3.99. order code : HW71N.
His website has some really good info on it. No I dont know him, never met him- just found the info in a search and thought it may be useful.

Cheers Alan

843. off frequency anyone help

Yahoo group: mkars80
Date: 2009-04-13 18:25:44 UTC
From: byling4
Topic: 843 Message: 843

Hi all,..i've just finished building the kit checking voltages and having fitted the LCD it displays 2.000.000 HZ,...adjusting C38 makes no change to the freq,..i've gone through the
voltage tables and find the following possible errors,checking
the BFO frequency with a freq.counter I have it bang on 10 Mhz.,..does any one have any ideas please,...Colin GM7TFN

Q19 emitter-7.44volts,.base-2.93volts,collector-3.68volts {not a typo}
IC2-
Pin1=0 volts,
Pin9= 1.05 volts,
Pin10= 0.20 volts
Pin11= 0.15 volts
Pin12= 1.92 volts
Pin13= 0.20 volts
Pin14= 4.95 volts
Pin15= 0.3 volts
Pin16= 2.06 volts
Pin17= 3.61 volts

any one got ANY ideas of where I should start looking for faults,....Thanks,..

844. Re: [mkars80] Re: Microphone wanted

Yahoo group: mkars80
Date: 2009-04-13 19:04:26 UTC
From: PHIL YATES
Topic: 824 Message: 844

Tis a little island, The isle of wight, we dont have a wilkinson either.
Well as far as I know.

Will be expediting out to maplins in the morning.

Regards
Phil G7BZD

--- On Mon, 13/4/09, allen <ALLENCrdr@...> wrote:

From: allen <ALLENCrdr@...>
Subject: [mkars80] Re: Microphone wanted
To: mkars80@...
Date: Monday, 13 April, 2009, 2:02 PM

Phil

Also try Wilkingson stores, They had some branded as Texet with a 8 inch goose neck, around £2.50.

Regards
Allen
M1CXK

[Non-text portions of this message have been removed]

845. Re: [mkars80] off frequency anyone help

Yahoo group: mkars80
Date: 2009-04-13 19:06:30 UTC
From: Steve Drury
Topic: 843 Message: 845

Colin,
It suggests to me that the VFO is running at 8MHz, can you put your
frequency counter on TP VFO and see what you measure.

Does the main tuning capacitor alter the frequency? I don't understand why
C38 makes no difference as it is straight across the main tuning gang.

Q19 is an MPSH10 which has a different pin out to the BC547 etc.
Steve G6ALU

----- Original Message -----
From: "byling4" <bpaton@...>
To: <mkars80@...>
Sent: Monday, April 13, 2009 7:25 PM
Subject: [mkars80] off frequency anyone help

> Hi all,..i've just finished building the kit checking voltages and having
> fitted the LCD
> it displays 2.000.000 HZ,...adjusting C38 makes no change to the
> freq,..i've gone through the
> voltage tables and find the following possible errors,checking
> the BFO frequency with a freq.counter I have it bang on 10 Mhz.,..does any
> one have
> any ideas please,...Colin GM7TFN
>
> Q19 emitter-7.44volts,.base-2.93volts,collector-3.68volts {not a typo}
> IC2-
> Pin1=0 volts,
> Pin9= 1.05 volts,
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> Pin17= 3.61 volts
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> any one got ANY ideas of where I should start looking for
> faults,....Thanks,..
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05:51:00

846. Re: [mkars80] New case required

Yahoo group: mkars80
Date: 2009-04-13 20:42:36 UTC
From: Jon Carp
Topic: 824 Message: 846

Hi Steve

Checked the transformers as you suggested and indeed a couple of leads weren't properly tinned - now sorted.

I now need to get myself a dummy load (sure I had one when I was last on the air in '98 but can't find it now) so I can continue with the transmitter config but the receiver sounds just fine!

Bit of solder slung out of the window, one hand on the case and the other on the central heating radiator to provide some sort of an earth and I received F8CHM, DL4KAO and several UK stations. Nice clean audio and no significant drift! It's like getting on the air for the first time again! Not bad after nearly 30 years licenced!

However, and it's a big however, I totally messed up the case so please could I buy a replacement off you? I hope to get to Stockwood Park so could get it and a dummy load there to save postage.

Cheers

Jon (with a grin that just won't go away!)

847. Re: [mkars80] New case required

Yahoo group: mkars80
Date: 2009-04-13 21:00:14 UTC
From: Steve Drury
Topic: 824 Message: 847

We plan to be there if you can wait that long Jon - would be interested in meeting other builders as well!

There is a rumour that an MKARS80 has crossed the pond - England to Canada - I'm trying to get confirmation.

You can make a simple dummy load, just put sufficient resistors in parallel for a couple of Watts dissipation and somewhere near 50 Ohms. If you are just adjusting the bias and mixer balance you won't need to transmit any power.

I know about the grin, we've all suffered it!

All the best,

Steve G6ALU

----- Original Message -----
From: "Jon Carp" <joncarp@...>
To: <mkars80@...>
Sent: Monday, April 13, 2009 9:42 PM
Subject: Re: [mkars80] New case required

> Hi Steve
>
> Checked the transformers as you suggested and indeed a couple of
> leads weren't properly tinned - now sorted.
>
> I now need to get myself a dummy load (sure I had one when I was last
> on the air in '98 but can't find it now) so I can continue with the
> transmitter config but the receiver sounds just fine!
>
> Bit of solder slung out of the window, one hand on the case and the
> other on the central heating radiator to provide some sort of an
> earth and I received F8CHM, DL4KAO and several UK stations. Nice
> clean audio and no significant drift! It's like getting on the air
> for the first time again! Not bad after nearly 30 years licenced!
>
> However, and it's a big however, I totally messed up the case so
> please could I buy a replacement off you? I hope to get to Stockwood
> Park so could get it and a dummy load there to save postage.
>
> Cheers
>
> Jon (with a grin that just won't go away!)
>
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Version: 8.0.238 / Virus Database: 270.11.54/2056 - Release Date: 04/13/09
05:51:00

848. Re: Microphone wanted

Yahoo group: mkars80
Date: 2009-04-14 08:35:45 UTC
From: David
Topic: 824 Message: 848

Phil

I use (with excellent reports) a £2.99 logitech computer headphone/microphone headset.

73s

David

--- In mkars80@..., "philg7bzd@..." <philg7bzd@...> wrote:
>
> Hi all.
>
> Am after a microphone, the only ones down at my local Maplins would have cost me more than the radio, Pc world are no better.
> Have tried my mic from my Icom271 (its an electret), but it sounds a bit ragged around the edges when listened to on another set, LED does indicate correctly as per the manual.
> It may be RF, as its not yet boxed, have started drilling the case.
> I cannot find a pound shop locally....
>
> Regards
> Phil G7BZD
>

849. Re: off frequency anyone help

Yahoo group: mkars80
Date: 2009-04-14 10:37:22 UTC
From: byling4
Topic: 843 Message: 849

Ok thanks Steve,...my apologies with respect to mention of Q19,..the voltages I have are correct with it being an MPSH10,...I have no reading as such from TP VFO,...looking at the display I have a letter 'U',..next to the battery voltage of 13.6V,.would this mean it's not locked ? the main tuning capacitor does NOT alter frequency and C38 makes no change to the freq, either,...thanks for your help

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Colin,
> It suggests to me that the VFO is running at 8MHz, can you put your
> frequency counter on TP VFO and see what you measure.
>
> Does the main tuning capacitor alter the frequency? I don't understand why
> C38 makes no difference as it is straight across the main tuning gang.
>
> Q19 is an MPSH10 which has a different pin out to the BC547 etc.
> Steve G6ALU
>
>
> ----- Original Message -----
> From: "byling4" <bpaton@...>
> To: <mkars80@...>
> Sent: Monday, April 13, 2009 7:25 PM
> Subject: [mkars80] off frequency anyone help
>
>
> > Hi all,..i've just finished building the kit checking voltages and having
> > fitted the LCD
> > it displays 2.000.000 HZ,...adjusting C38 makes no change to the
> > freq,..i've gone through the
> > voltage tables and find the following possible errors,checking
> > the BFO frequency with a freq.counter I have it bang on 10 Mhz.,..does any
> > one have
> > any ideas please,...Colin GM7TFN
> >
> > Q19 emitter-7.44volts,.base-2.93volts,collector-3.68volts {not a typo}
> > IC2-
> > Pin1=0 volts,
> > Pin9= 1.05 volts,
> > Pin10= 0.20 volts
> > Pin11= 0.15 volts
> > Pin12= 1.92 volts
> > Pin13= 0.20 volts
> > Pin14= 4.95 volts
> > Pin15= 0.3 volts

> > Pin16= 2.06 volts
> > Pin17= 3.61 volts
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> > any one got ANY ideas of where I should start looking for
> > faults,....Thanks,..
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> 05:51:00
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850. Re: [mkars80] Re: off frequency anyone help

Yahoo group: mkars80
Date: 2009-04-14 10:52:50 UTC
From: Steve Drury
Topic: 843 Message: 850

Colin,

Could that be a strange symbol rather than a "2", if so it suggests the VFO isn't oscillating. Yes the "U" indicates the Huff and Puff is not locked.

Check carefully around Q11, as the voltages are correct I suspect there is a blob of solder or dry joint some where.

Regards,
Steev G6ALU

----- Original Message -----
From: "byling4" <bpaton@...>
To: <mkars80@...>
Sent: Tuesday, April 14, 2009 11:37 AM
Subject: [mkars80] Re: off frequency anyone help

> Ok thanks Steve,...my apologies with respect to mention of Q19,..the
> voltages I have are correct with it being an MPSH10,...I have no reading
> as such from TP VFO,...looking at the display I have a letter 'U',..next
> to the battery voltage of 13.6V,.would this mean it's not locked ? the
> main tuning capacitor does NOT alter frequency and C38 makes no change to
> the freq, either,...thanks for your help
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Colin,
>> It suggests to me that the VFO is running at 8MHz, can you put your
>> frequency counter on TP VFO and see what you measure.
>>
>> Does the main tuning capacitor alter the frequency? I don't understand
>> why
>> C38 makes no difference as it is straight across the main tuning gang.
>>
>> Q19 is an MPSH10 which has a different pin out to the BC547 etc.
>> Steve G6ALU
>>
>>
>> ----- Original Message -----
>> From: "byling4" <bpaton@...>
>> To: <mkars80@...>
>> Sent: Monday, April 13, 2009 7:25 PM
>> Subject: [mkars80] off frequency anyone help
>>
>>
>> > Hi all,..i've just finished building the kit checking voltages and

>> > having
>> > fitted the LCD
>> > it displays 2.000.000 HZ,...adjusting C38 makes no change to the
>> > freq,..i've gone through the
>> > voltage tables and find the following possible errors,checking
>> > the BFO frequency with a freq.counter I have it bang on 10 Mhz.,..does
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Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.56/2058 - Release Date: 04/14/09
06:17:00

851. Re: off frequency anyone help

Yahoo group: mkars80
Date: 2009-04-14 19:46:25 UTC
From: byling4
Topic: 843 Message: 851

Hi Steve,..yes it is a strange symbol,...a bit like a cross between " 2 + @ ",..i'm a bit annoyed because i'm not a novice builder having previously built wx sat, receivers and softrock kits,...i'm convinced it's something simple because all my voltages seem to be within tolerance,...one thing I had noticed was that with both C35+C39 both polarised caps.,..with power supplied any movement of the capacitors or a finger placed on them from the track side causes a bit of feedback type hum in the speaker,..I don't know what their purpose is,..but I have replacements if needs be,...could they be swapped over for 2 x 1 microfarad 50 volt caps. ?,...i've also reflowed most of the solder joints in case of a dry joint,..I will persevere and keep you informed of any results,....kind regards Colin GM7TFN

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Colin,
>
> Could that be a strange symbol rather than a "2", if so it suggests the VFO
> isn't oscillating. Yes the "U" indicates the Huff and Puff is not locked.
>
> Check carefully around Q11, as the voltages are correct I suspect there is a
> blob of solder or dry joint some where.
>
> Regards,
> Steev G6ALU
>
> ----- Original Message -----
> From: "byling4" <bpaton@...>
> To: <mkars80@...>
> Sent: Tuesday, April 14, 2009 11:37 AM
> Subject: [mkars80] Re: off frequency anyone help
>
>
> > Ok thanks Steve,...my apologies with respect to mention of Q19,..the
> > voltages I have are correct with it being an MPSH10,...I have no reading
> > as such from TP VFO,...looking at the display I have a letter 'U',..next
> > to the battery voltage of 13.6V,.would this mean it's not locked ? the
> > main tuning capacitor does NOT alter frequency and C38 makes no change to
> > the freq, either,...thanks for your help
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Colin,
> >> It suggests to me that the VFO is running at 8MHz, can you put your
> >> frequency counter on TP VFO and see what you measure.
> >>
> >> Does the main tuning capacitor alter the frequency? I don't understand
> >> why

> >> C38 makes no difference as it is straight across the main tuning gang.
> >>
> >> Q19 is an MPSH10 which has a different pin out to the BC547 etc.
> >> Steve G6ALU
> >>
> >>
> >> ----- Original Message -----
> >> From: "byling4" <bpaton@>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Monday, April 13, 2009 7:25 PM
> >> Subject: [mkars80] off frequency anyone help
> >>
> >>
> >> > Hi all,..i've just finished building the kit checking voltages and
> >> > having
> >> > fitted the LCD
> >> > it displays 2.000.000 HZ,...adjusting C38 makes no change to the
> >> > freq,..i've gone through the
> >> > voltage tables and find the following possible errors,checking
> >> > the BFO frequency with a freq.counter I have it bang on 10 Mhz.,..does
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> >> > Pin1=0 volts,
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> 06:17:00
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852. Re: [mkars80] Re: off frequency anyone help

Yahoo group: mkars80
Date: 2009-04-14 19:54:58 UTC
From: Steve Drury
Topic: 843 Message: 852

Yes I'm sure its the oscillator (VFO) not running - those capacitors are normally sensitive, the audio amplifier is running at maximum gain.

Check again around the VFO, is there continuity across the VFO inductor?

Which Weather satellite receivers did you build?

Steve G6ALU

----- Original Message -----
From: "byling4" <bpaton@...>
To: <mkars80@...>
Sent: Tuesday, April 14, 2009 8:46 PM
Subject: [mkars80] Re: off frequency anyone help

> Hi Steve,..yes it is a strange symbol,...a bit like a cross between " 2 +
> @ ",..i'm a bit annoyed because i'm not a novice builder having previously
> built wx sat, receivers and softrock kits,...i'm convinced it's something
> simple because all my voltages seem to be within tolerance,...one thing I
> had noticed was that with both C35+C39 both polarised caps.,..with power
> supplied any movement of the capacitors or a finger placed on them from
> the track side causes a bit of feedback type hum in the speaker,..I don't
> know what their purpose is,..but I have replacements if needs be,...could
> they be swapped over for 2 x 1 microfarad 50 volt caps. ?,...i've also
> reflowed most of the solder joints in case of a dry joint,..I will
> persevere and keep you informed of any results,....kind regards Colin
> GM7TFN
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Colin,
>>
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>> VFO
>> isn't oscillating. Yes the "U" indicates the Huff and Puff is not locked.
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>> Check carefully around Q11, as the voltages are correct I suspect there
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>> blob of solder or dry joint some where.
>>
>> Regards,
>> Steev G6ALU
>>
>> ----- Original Message -----
>> From: "byling4" <bpaton@...>
>> To: <mkars80@...>

>> Sent: Tuesday, April 14, 2009 11:37 AM
>> Subject: [mkars80] Re: off frequency anyone help
>>
>>
>> > Ok thanks Steve,...my apologies with respect to mention of Q19,..the
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>> > the freq, either,...thanks for your help
>> >
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>> >>
>> >> Colin,
>> >> It suggests to me that the VFO is running at 8MHz, can you put your
>> >> frequency counter on TP VFO and see what you measure.
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>> >> Does the main tuning capacitor alter the frequency? I don't understand
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>> >> C38 makes no difference as it is straight across the main tuning gang.
>> >>
>> >> Q19 is an MPSH10 which has a different pin out to the BC547 etc.
>> >> Steve G6ALU
>> >>
>> >>
>> >> ----- Original Message -----
>> >> From: "byling4" <bpaton@>
>> >> To: <mkars80@...>
>> >> Sent: Monday, April 13, 2009 7:25 PM
>> >> Subject: [mkars80] off frequency anyone help
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>> >> > Hi all,..i've just finished building the kit checking voltages and
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>> >> > fitted the LCD
>> >> > it displays 2.000.000 HZ,...adjusting C38 makes no change to the
>> >> > freq,..i've gone through the
>> >> > voltage tables and find the following possible errors,checking
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>> >> > any ideas please,...Colin GM7TFN
>> >> >
>> >> > Q19 emitter-7.44volts,.base-2.93volts,collector-3.68volts {not a
>> >> > typo}
>> >> > IC2-

>> >> > Pin1=0 volts,
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853. Help - No RF out

Yahoo group: mkars80
Date: 2009-04-15 10:39:10 UTC
From: rfullagar@worldonline.co.uk
Topic: 853 Message: 853

I have come use to my mkars80 in anger and discovered I have no RF coming out.

Receiver works fine, LCD shows what it should.

Calibrated the PA, on tx with R2 fully anticlockwise I had 190ma so adjusted to 240ma. TP measures 10Mhz according to my frequency counter. When I press PTT I hear the relay click and the LED lights up. I am in the process of checking voltages and revisiting the mixer calibration should I look anywhere in particular (being a novice builder I need the pointers). I have tested the mic and it works fine, and checked and rechecked its wiring to the 3.5mm jack. Q1 measures what it should on on rx and tx.

I did have a problem of the fuse blowing when putting the PCB into the case, could I have blown something?

I have read a thread on the forum about no RF, check that already.

Thanks in advance.

Robert (m0rpf)

http://www.tiscali.co.uk/wine - Save £25 off a case of wine today

---

854. Re: [mkars80] Help - No RF out

Yahoo group: mkars80
Date: 2009-04-15 11:13:56 UTC
From: Steve Drury
Topic: 853 Message: 854

Hi Robert,

First I don't think you have blown the output transistor as the current rises when adjusting the bias. The current in TX seems low, I normally see about 250mA (at 12.5V) before I adjust the bias, when adjusted it is 300mA.

Just as a quick check see if Q5 the driver transistor (ZTX651) is getting hot when pressing the PTT - it should do! You are doing the right thing by checking voltages first.

Regards,
Steve G6ALU

----- Original Message -----
From: <rfullagar@...>
To: <mkars80@...>
Sent: Wednesday, April 15, 2009 11:39 AM
Subject: [mkars80] Help - No RF out

I have come use to my mkars80 in anger and discovered I have no RF coming out.

Receiver works fine, LCD shows what it should.

Calibrated the PA, on tx with R2 fully anticlockwise I had 190ma so adjusted to 240ma. TP measures 10Mhz according to my frequency counter. When I press PTT I hear the relay click and the LED lights up. I am in the process of checking voltages and revisiting the mixer calibration should I look anywhere in particular (being a novice builder I need the pointers). I have tested the mic and it works fine, and checked and rechecked its wiring to the 3.5mm jack. Q1 measures what it should on on rx and tx.

I did have a problem of the fuse blowing when putting the PCB into the case, could I have blown something?

I have read a thread on the forum about no RF, check that already.

Thanks in advance.

Robert (m0rpf)

http://www.tiscali.co.uk/wine - Save £25 off a case of wine today

---

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.57/2059 - Release Date: 04/14/09
14:52:00

855. Re: Help - No RF out

Yahoo group: mkars80
Date: 2009-04-16 08:26:03 UTC
From: rfullagar
Topic: 853 Message: 855

Steve

I have the voltages and some look way out especially Q5.

Table below shows the results, input voltage was 12.8v from an SLA battery.

I await your diagnosis :)

Regards

Robert (m0rpf)

	Receive			Transmit	
	Emitter	Base	Collector	Emitter	Base	Collector
Q2	14mv	14mv	14mv	30mv	0.68	0.68
Q3	14mv	14mv	21.9mv	30mv	0.76	31.1mv
Q4	14mv	14mv	14mv	126mv	0.68	12
Q5	0	0	0	0.14	0.14	12
Q6	0	0.66	0.66	0	0.66	0.68
Q7	0	0.42	2.2	0	0.42	2.2
Q8	0	0.54	2.17	0	0.56	2.17
Q9	0	0	0	2.2	3	10
Q10	0	0	0	2.99	2.65	3.24
Q11	3.96	3.56	7.46	3.99	3.58	7.46
Q12	3.35	3.9	7.45	3.35	3.9	7.45
Q13	3.6	4.2	8.53	3.6	4.2	8.55
Q14	0	0.64	4.52	0	0	0
Q15	1.9	2.58	8.27	0	0	0
Q16	4.19	4.29	7.1	4.19	4.31	7.1
Q17	3.85	4.523	11.63	0	0	0
Q18	4.33	3.98	7.14	4.33	3.98	7.14
Q19	2.6	3.4	6.8	0	0	0
Q20	0	0	0	2.6	3.3	6.8
Q21	0	0	0	1.92	2.59	8.22
Q22	0	0	0	2.28	2.94	9.38

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Robert,
>
> First I don't think you have blown the output transistor as the current
> rises when adjusting the bias. The current in TX seems low, I normally see
> about 250mA (at 12.5V) before I adjust the bias, when adjusted it is 300mA.
>
> Just as a quick check see if Q5 the driver transistor (ZTX651) is getting
> hot when pressing the PTT - it should do! You are doing the right thing by
> checking voltages first.

>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: <rfullagar@...>
> To: <mkars80@...>
> Sent: Wednesday, April 15, 2009 11:39 AM
> Subject: [mkars80] Help - No RF out
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> I did have a problem of the fuse blowing when putting the PCB into the
> case, could I have blown something?
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> Thanks in advance.
>
> Robert (m0rpf)
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> http://www.tiscali.co.uk/wine - Save Â£25 off a case of wine today
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.57/2059 - Release Date: 04/14/09
> 14:52:00
>

856. Re: off frequency anyone help

Yahoo group: mkars80
Date: 2009-04-16 19:47:11 UTC
From: byling4
Topic: 843 Message: 856

Hi Steve,..Ok thanks for your advice Steve,..i've managed to get it receiving the problem was a couple of suspect resistor joints in the area of the VFO,....a few heart stopping moments though I have to admit,...now comes the next of stage of TX alignment,..you asked about the wx receivers,...i've done quite a few of the RIGsat RX2 receivers, one for myself and three or four others for friends again they were nice little kits which were fairly easy to get going,..but I think they've been probably replaced by something more modern by now,...ok once again thanks for your comments and support it's appreciated very much,....kind regards Colin GM7TFN

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Yes I'm sure its the oscillator (VFO) not running - those capacitors are
> normally sensitive, the audio amplifier is running at maximum gain.
>
> Check again around the VFO, is there continuity across the VFO inductor?
>
> Which Weather satellite receivers did you build?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "byling4" <bpaton@...>
> To: <mkars80@...>
> Sent: Tuesday, April 14, 2009 8:46 PM
> Subject: [mkars80] Re: off frequency anyone help
>
>
> > Hi Steve,..yes it is a strange symbol,...a bit like a cross between " 2 +
> > @ ",..i'm a bit annoyed because i'm not a novice builder having previously
> > built wx sat, receivers and softrock kits,...i'm convinced it's something
> > simple because all my voltages seem to be within tolerance,...one thing I
> > had noticed was that with both C35+C39 both polarised caps.,..with power
> > supplied any movement of the capacitors or a finger placed on them from
> > the track side causes a bit of feedback type hum in the speaker,..I don't
> > know what their purpose is,..but I have replacements if needs be,...could
> > they be swapped over for 2 x 1 microfarad 50 volt caps. ?,...i've also
> > reflowed most of the solder joints in case of a dry joint,..I will
> > persevere and keep you informed of any results,....kind regards Colin
> > GM7TFN
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:

857. Re: [mkars80] Re: off frequency anyone help

Yahoo group: mkars80
Date: 2009-04-16 19:50:55 UTC
From: Steve Drury
Topic: 843 Message: 857

I'm glad you are receiving now - more than half way there!

The RIGsat RX2 was based on one of my VHF transceivers, the software was mine!

Steve G6ALU

----- Original Message -----
From: "byling4" <bpaton@...>
To: <mkars80@...>
Sent: Thursday, April 16, 2009 8:47 PM
Subject: [mkars80] Re: off frequency anyone help

> Hi Steve,..Ok thanks for your advice Steve,..i've managed to get it
> receiving the problem was a couple of suspect resistor joints in the area
> of the VFO,....a few heart stopping moments though I have to admit,...now
> comes the next of stage of TX alignment,..you asked about the wx
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>> normally sensitive, the audio amplifier is running at maximum gain.
>>
>> Check again around the VFO, is there continuity across the VFO inductor?
>>
>> Which Weather satellite receivers did you build?
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "byling4" <bpaton@...>
>> To: <mkars80@...>
>> Sent: Tuesday, April 14, 2009 8:46 PM
>> Subject: [mkars80] Re: off frequency anyone help
>>
>>
>> > Hi Steve,..yes it is a strange symbol,...a bit like a cross between " 2
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>> > @ ",..i'm a bit annoyed because i'm not a novice builder having
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>> > reflowed most of the solder joints in case of a dry joint,..I will
>> > persevere and keep you informed of any results,....kind regards Colin
>> > GM7TFN
>> >
>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.11.58/2062 - Release Date: 04/16/09
08:12:00

858. Re: [mkars80] Re: Help - No RF out

Yahoo group: mkars80
Date: 2009-04-16 21:05:56 UTC
From: Steve Drury
Topic: 853 Message: 858

Hello Robert,

I don't have much time this evening but I wonder if Q5 is the wrong way round or is one of its bias resistors the wrong value?

Steve G6ALU

----- Original Message -----
From: "rfullagar" <rfullagar@...>
To: <mkars80@...>
Sent: Thursday, April 16, 2009 9:26 AM
Subject: [mkars80] Re: Help - No RF out

Steve

I have the voltages and some look way out especially Q5.

Table below shows the results, input voltage was 12.8v from an SLA battery.

I await your diagnosis :)

Regards

Robert (m0rpf)
Receive Transmit
Emitter Base Collector Emitter Base Collector
Q2 14mv 14mv 14mv 30mv 0.68 0.68
Q3 14mv 14mv 21.9mv 30mv 0.76 31.1mv
Q4 14mv 14mv 14mv 126mv 0.68 12
Q5 0 0 0 0.14 0.14 12
Q6 0 0.66 0.66 0 0.66 0.68
Q7 0 0.42 2.2 0 0.42 2.2
Q8 0 0.54 2.17 0 0.56 2.17
Q9 0 0 0 2.2 3 10
Q10 0 0 0 2.99 2.65 3.24
Q11 3.96 3.56 7.46 3.99 3.58 7.46
Q12 3.35 3.9 7.45 3.35 3.9 7.45
Q13 3.6 4.2 8.53 3.6 4.2 8.55
Q14 0 0.64 4.52 0 0 0
Q15 1.9 2.58 8.27 0 0 0
Q16 4.19 4.29 7.1 4.19 4.31 7.1
Q17 3.85 4.523 11.63 0 0 0
Q18 4.33 3.98 7.14 4.33 3.98 7.14
Q19 2.6 3.4 6.8 0 0 0
Q20 0 0 0 2.6 3.3 6.8
Q21 0 0 0 1.92 2.59 8.22
Q22 0 0 0 2.28 2.94 9.38

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Robert,
>
> First I don't think you have blown the output transistor as the current
> rises when adjusting the bias. The current in TX seems low, I normally see
> about 250mA (at 12.5V) before I adjust the bias, when adjusted it is
> 300mA.
>
> Just as a quick check see if Q5 the driver transistor (ZTX651) is getting
> hot when pressing the PTT - it should do! You are doing the right thing by
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>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: <rfullagar@...>
> To: <mkars80@...>
> Sent: Wednesday, April 15, 2009 11:39 AM
> Subject: [mkars80] Help - No RF out
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> http://www.tiscali.co.uk/wine - Save £25 off a case of wine today

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Version: 8.0.238 / Virus Database: 270.11.57/2059 - Release Date: 04/14/09
14:52:00

859. Re: Help - No RF out

Yahoo group: mkars80
Date: 2009-04-17 18:51:14 UTC
From: rfullagar
Topic: 853 Message: 859

Steve

Anything is possible :)

Q5 flat side faces Q9 as per the PCB overlay, the rounded edged side towards R2.

No sure what the biasing resistors are but R19, R16, R22, R24 and R25 those around Q5 have the correct colour coding..

regards

Robert

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hello Robert,
>
> I don't have much time this evening but I wonder if Q5 is the wrong way
> round or is one of its bias resistors the wrong value?
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> ----- Original Message -----
> From: "rfullagar" <rfullagar@...>
> To: <mkars80@...>
> Sent: Thursday, April 16, 2009 9:26 AM
> Subject: [mkars80] Re: Help - No RF out
>
>
> Steve
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> Q3 14mv 14mv 21.9mv 30mv 0.76 31.1mv
> Q4 14mv 14mv 14mv 126mv 0.68 12
> Q5 0 0 0 0.14 0.14 12

> Q6 0 0.66 0.66 0 0.66 0.68
> Q7 0 0.42 2.2 0 0.42 2.2
> Q8 0 0.54 2.17 0 0.56 2.17
> Q9 0 0 0 2.2 3 10
> Q10 0 0 0 2.99 2.65 3.24
> Q11 3.96 3.56 7.46 3.99 3.58 7.46
> Q12 3.35 3.9 7.45 3.35 3.9 7.45
> Q13 3.6 4.2 8.53 3.6 4.2 8.55
> Q14 0 0.64 4.52 0 0 0
> Q15 1.9 2.58 8.27 0 0 0
> Q16 4.19 4.29 7.1 4.19 4.31 7.1
> Q17 3.85 4.523 11.63 0 0 0
> Q18 4.33 3.98 7.14 4.33 3.98 7.14
> Q19 2.6 3.4 6.8 0 0 0
> Q20 0 0 0 2.6 3.3 6.8
> Q21 0 0 0 1.92 2.59 8.22
> Q22 0 0 0 2.28 2.94 9.38
>
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> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Hi Robert,
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> > ----- Original Message -----
> > From: <rfullagar@>
> > To: <mkars80@...>
> > Sent: Wednesday, April 15, 2009 11:39 AM
> > Subject: [mkars80] Help - No RF out
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> 14:52:00
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860. Re: Microphone US Sources

Yahoo group: mkars80
Date: 2009-04-22 03:28:03 UTC
From: e_larson_esq
Topic: 824 Message: 860

For those builders in States, these electret
elements can be purchased at any Radio Shack
for about 2 dollars. Or $.50 at ALl Electronics:

http://www.allelectronics.com/make-a-store/category/390/Microphones/1.html

All electronics offers three different models,
one in a rubber shock mount, one with leads,
one without leads.
I have not yet received my kit but based on
experience with QRP rigs in the past that use electrets
(BITX20A, MMR-40, etc) I am going to use a computer
mic or adapt an old CB mic.
73, Ken AD6KA/5R8GQ

--- In mkars80@..., "David" <theshroomary@...> wrote:
>
> Phil
>
> I use (with excellent reports) a £2.99 logitech computer headphone/microphone headset.
>
> 73s
>
> David
>
>
> --- In mkars80@..., "philg7bzd@" <philg7bzd@> wrote:
> >
> > Hi all.
> >
> > Am after a microphone, the only ones down at my local Maplins would have cost me more
than the radio, Pc world are no better.
> > Have tried my mic from my Icom271 (its an electret), but it sounds a bit ragged around
the edges when listened to on another set, LED does indicate correctly as per the manual.
> > It may be RF, as its not yet boxed, have started drilling the case.
> > I cannot find a pound shop locally....
> >
> > Regards
> > Phil G7BZD
> >
>

861. Re: Microphone US Sources

Yahoo group: mkars80
Date: 2009-04-22 03:28:34 UTC
From: e_larson_esq
Topic: 824 Message: 861

For those builders in States, these electret
elements can be purchased at any Radio Shack
for about 2 dollars. Or $.50 at ALl Electronics:

http://www.allelectronics.com/make-a-store/category/390/Microphones/1.html

All electronics offers three different models,
one in a rubber shock mount, one with leads,
one without leads.
I have not yet received my kit but based on
experience with QRP rigs in the past that use electrets
(BITX20A, MMR-40, etc) I am going to use a computer
mic or adapt an old CB mic.
73, Ken AD6KA/5R8GQ

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> Phil
>
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> 73s
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> David
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> > I cannot find a pound shop locally....
> >
> > Regards
> > Phil G7BZD
> >
>

862. Alignment For USA Band Allocation Coverage

Yahoo group: mkars80
Date: 2009-04-23 05:08:12 UTC
From: e_larson_esq
Topic: 862 Message: 862

I've posted my order and am eagerly waiting for my kit to arrive.
During alignment, will adjusting C38 and the trimmer on
the Polyvaricon allow for the freq coverage up into
the 3.6-4.0 MHz range? (USA Extra Class SSB priviledge)
Or 300 KHz somewhere in that range?
Has that been the experience of anyone who has completed the project?
Or will I perhaps have to pad a small cap
across C38?
TNX, Ken AD6KA

863. Re: Alignment For USA Band Allocation Coverage

Yahoo group: mkars80
Date: 2009-04-24 01:11:31 UTC
From: ki4mmm
Topic: 862 Message: 863

Ken,

I don't remember the lower end on mine, but it is pretty far down there; my upper end came out around 3.955. I plan to someday add a turn or two to my inductor to bring it up.

Greg
ki4mmm

--- In mkars80@yahoogroups.co.uk, "e_larson_esq" <e_larson_esq@...> wrote:
>
> I've posted my order and am eagerly waiting for my kit to arrive.
> During alignment, will adjusting C38 and the trimmer on
> the Polyvaricon allow for the freq coverage up into
> the 3.6-4.0 MHz range? (USA Extra Class SSB priviledge)
> Or 300 KHz somewhere in that range?
> Has that been the experience of anyone who has completed the project?
> Or will I perhaps have to pad a small cap
> across C38?
> TNX, Ken AD6KA
>

864. Vernier dial drive.... info/source required.

Yahoo group: mkars80
Date: 2009-04-24 20:55:17 UTC
From: philg7bzd@btinternet.com
Topic: 864 Message: 864

Hi Folks.

Sorted the microphone out, nice little electret capsule (Maplins) sounds better than my Icom mic.

I am now searching for a 1.5 inch vernier dial drive for the tuning, its one of the ones with a 8:1 ratio, cannot seem to find on in the UK, Tried the ones of some of my other kit but at 2 inches in diameter they are too big.
Any info would help.

Regards
Phil G7BZD

865. Re: [mkars80] Vernier dial drive.... info/source required.

Yahoo group: mkars80
Date: 2009-04-24 21:01:12 UTC
From: Steve Drury
Topic: 864 Message: 865

Phil,

Not sure exactly what you are looking for but does this link help?

http://www.mainlinegroup.co.uk/jacksonbrothers/index.htm

Steve G6ALU

----- Original Message -----
From: <philg7bzd@...>
To: <mkars80@...>
Sent: Friday, April 24, 2009 9:55 PM
Subject: [mkars80] Vernier dial drive.... info/source required.

> Hi Folks.
>
> Sorted the microphone out, nice little electret capsule (Maplins) sounds
> better than my Icom mic.
>
> I am now searching for a 1.5 inch vernier dial drive for the tuning, its
> one of the ones with a 8:1 ratio, cannot seem to find on in the UK, Tried
> the ones of some of my other kit but at 2 inches in diameter they are too
> big.
> Any info would help.
>
> Regards
> Phil G7BZD
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.4/2078 - Release Date: 04/24/09
07:54:00

866. Re: Vernier dial drive.... info/source required.

Yahoo group: mkars80
Date: 2009-04-24 21:19:26 UTC
From: John
Topic: 864 Message: 866

Hello Phil,

I have fitted a 10:1 ball drive which fits very easily on to the existing polycon shaft take a look at the following link and also picture on this group photo albums / members radios / mkars80slowmo

http://www.mainlinegroup.co.uk/jacksonbrothers/6020.htm

73 de John (M0TIF)

--- In mkars80@..., "philg7bzd@..." <philg7bzd@...> wrote:

> I am now searching for a 1.5 inch vernier dial drive for the tuning, its one of the ones with a 8:1 ratio, cannot seem to find on in the UK,
> Regards
> Phil G7BZD
>

867. Re: [mkars80] Vernier dial drive.... info/source required.

Yahoo group: mkars80
Date: 2009-04-25 07:03:55 UTC
From: PHIL YATES
Topic: 864 Message: 867

Hi Steve

The type I was after has the slow motion drive built into a vernier knob assembly. Is there a particular Jackson drive that would fit, as I know theres not a lot of room.

Regards
Phil G7BZD

--- On Fri, 24/4/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@tiscali.co.uk>
Subject: Re: [mkars80] Vernier dial drive.... info/source required.
To: mkars80@...
Date: Friday, 24 April, 2009, 10:01 PM

Phil,

Not sure exactly what you are looking for but does this link help?

http://www.mainline group.co. uk/jacksonbrothe rs/index. htm

Steve G6ALU

----- Original Message -----
From: <philg7bzd@btinterne t.com>
To: <mkars80@yahoogroups .co.uk>
Sent: Friday, April 24, 2009 9:55 PM
Subject: [mkars80] Vernier dial drive.... info/source required.

> Hi Folks.
>
> Sorted the microphone out, nice little electret capsule (Maplins) sounds
> better than my Icom mic.
>
> I am now searching for a 1.5 inch vernier dial drive for the tuning, its
> one of the ones with a 8:1 ratio, cannot seem to find on in the UK, Tried
> the ones of some of my other kit but at 2 inches in diameter they are too
> big.
> Any info would help.
>
> Regards
> Phil G7BZD
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.4/2078 - Release Date: 04/24/09
07:54:00

[Non-text portions of this message have been removed]

868. Re: [mkars80] Vernier dial drive.... info/source required.

Yahoo group: mkars80
Date: 2009-04-25 09:17:06 UTC
From: Steve Drury
Topic: 864 Message: 868

Phil,

I'm not sure of the vernier knob you refer to but when ordering remember the capacitor shaft is 6mm.

Steve G6ALU

----- Original Message -----
From: "PHIL YATES" <philg7bzd@...>
To: <mkars80@...>
Sent: Saturday, April 25, 2009 8:03 AM
Subject: Re: [mkars80] Vernier dial drive.... info/source required.

Hi Steve

The type I was after has the slow motion drive built into a vernier knob assembly. Is there a particular Jackson drive that would fit, as I know theres not a lot of room.

Regards
Phil G7BZD

--- On Fri, 24/4/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Vernier dial drive.... info/source required.
To: mkars80@...
Date: Friday, 24 April, 2009, 10:01 PM

Phil,

Not sure exactly what you are looking for but does this link help?

http://www.mainline group.co. uk/jacksonbrothe rs/index. htm

Steve G6ALU

----- Original Message -----
From: <philg7bzd@btinterne t.com>
To: <mkars80@yahoogroups .co.uk>
Sent: Friday, April 24, 2009 9:55 PM
Subject: [mkars80] Vernier dial drive.... info/source required.

> Hi Folks.
>
> Sorted the microphone out, nice little electret capsule (Maplins) sounds
> better than my Icom mic.
>

> I am now searching for a 1.5 inch vernier dial drive for the tuning, its
> one of the ones with a 8:1 ratio, cannot seem to find on in the UK, Tried
> the ones of some of my other kit but at 2 inches in diameter they are too
> big.
> Any info would help.
>
> Regards
> Phil G7BZD
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.4/2078 - Release Date: 04/24/09
07:54:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.4/2078 - Release Date: 04/24/09
07:54:00

869. Re: Vernier dial drive.... info/source required.

Yahoo group: mkars80
Date: 2009-04-25 16:20:26 UTC
From: mark2w0jmk
Topic: 864 Message: 869

there is a 10:1 ball drive on ebay uk item number 260389910583
one left i bought one

mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Phil,
>
> I'm not sure of the vernier knob you refer to but when ordering remember the
> capacitor shaft is 6mm.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "PHIL YATES" <philg7bzd@...>
> To: <mkars80@...>
> Sent: Saturday, April 25, 2009 8:03 AM
> Subject: Re: [mkars80] Vernier dial drive.... info/source required.
>
>
> Hi Steve
>
> The type I was after has the slow motion drive built into a vernier knob
> assembly. Is there a particular Jackson drive that would fit, as I know
> theres not a lot of room.
>
> Regards
> Phil G7BZD
>
> --- On Fri, 24/4/09, Steve Drury <g6alu@...> wrote:
>
> From: Steve Drury <g6alu@...>
> Subject: Re: [mkars80] Vernier dial drive.... info/source required.
> To: mkars80@...
> Date: Friday, 24 April, 2009, 10:01 PM
>
>
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>
>
> Phil,

>
> Not sure exactly what you are looking for but does this link help?
>
> http://www.mainline group.co. uk/jacksonbrothe rs/index. htm
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <philg7bzd@btinterne t.com>
> To: <mkars80@yahoogroups .co.uk>
> Sent: Friday, April 24, 2009 9:55 PM
> Subject: [mkars80] Vernier dial drive.... info/source required.
>
> > Hi Folks.
> > >
> > > Sorted the microphone out, nice little electret capsule (Maplins) sounds
> > > better than my Icom mic.
> > >
> > > I am now searching for a 1.5 inch vernier dial drive for the tuning, its
> > > one of the ones with a 8:1 ratio, cannot seem to find on in the UK, Tried
> > > the ones of some of my other kit but at 2 inches in diameter they are too
> > > big.
> > > Any info would help.
> > >
> > > Regards
> > > Phil G7BZD
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> Checked by AVG - www.avg.com
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> [Non-text portions of this message have been removed]
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.12.4/2078 - Release Date: 04/24/09
> 07:54:00
>

870. Re: [mkars80] Re: Vernier dial drive.... info/source required.

Yahoo group: mkars80
Date: 2009-04-25 18:39:02 UTC
From: PHIL YATES
Topic: 864 Message: 870

Hi Mark

Thanks, but I missed it.

Regards
Phil G7BZD

--- On Sat, 25/4/09, mark2w0jmk <mark2w0jmk@...> wrote:

From: mark2w0jmk <mark2w0jmk@...>
Subject: [mkars80] Re: Vernier dial drive.... info/source required.
To: mkars80@...
Date: Saturday, 25 April, 2009, 5:20 PM

there is a 10:1 ball drive on ebay uk item number 260389910583
one left i bought one

mark 2w0jmk

--- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Phil,
>
> I'm not sure of the vernier knob you refer to but when ordering remember the
> capacitor shaft is 6mm.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "PHIL YATES" <philg7bzd@. ..>
> To: <mkars80@yahoogroups .co.uk>
> Sent: Saturday, April 25, 2009 8:03 AM
> Subject: Re: [mkars80] Vernier dial drive.... info/source required.
>
>
> Hi Steve
>
> The type I was after has the slow motion drive built into a vernier knob
> assembly. Is there a particular Jackson drive that would fit, as I know
> theres not a lot of room.
>
> Regards
> Phil G7BZD
>
> --- On Fri, 24/4/09, Steve Drury <g6alu@...> wrote:
>
> From: Steve Drury <g6alu@...>

> Subject: Re: [mkars80] Vernier dial drive.... info/source required.
> To: mkars80@yahoogroups .co.uk
> Date: Friday, 24 April, 2009, 10:01 PM
>
>
>
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>
>
> Phil,
>
> Not sure exactly what you are looking for but does this link help?
>
> http://www.mainline group.co. uk/jacksonbrothe rs/index. htm
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <philg7bzd@btintern e t.com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Friday, April 24, 2009 9:55 PM
> Subject: [mkars80] Vernier dial drive.... info/source required.
>
> > Hi Folks.
> >
> > Sorted the microphone out, nice little electret capsule (Maplins) sounds
> > better than my Icom mic.
> >
> > I am now searching for a 1.5 inch vernier dial drive for the tuning, its
> > one of the ones with a 8:1 ratio, cannot seem to find on in the UK, Tried
> > the ones of some of my other kit but at 2 inches in diameter they are too
> > big.
> > Any info would help.
> >
> > Regards
> > Phil G7BZD
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.12.4/2078 - Release Date: 04/24/09
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.12.4/2078 - Release Date: 04/24/09
> 07:54:00
>

[Non-text portions of this message have been removed]

871. Re: Help - No RF out

Yahoo group: mkars80
Date: 2009-04-25 19:11:11 UTC
From: rfullagar
Topic: 853 Message: 871

Steve

Have you had a chance to examine the voltage readings in my post and check if I have Q5 the right way around?

I still have no RF out :(

Rob (M0RPF)

--- In mkars80@..., "rfullagar" <rfullagar@...> wrote:
>
> Steve
>
> Anything is possible :)
>
> Q5 flat side faces Q9 as per the PCB overlay, the rounded edged side towards R2.
>
> No sure what the biasing resistors are but R19, R16, R22, R24 and R25 those around Q5 have the correct colour coding..
>
> regards
>
> Robert
>
>
> --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >
> > Hello Robert,
> >
> > I don't have much time this evening but I wonder if Q5 is the wrong way
> > round or is one of its bias resistors the wrong value?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "rfullagar" <rfullagar@>
> > To: <mkars80@...>
> > Sent: Thursday, April 16, 2009 9:26 AM
> > Subject: [mkars80] Re: Help - No RF out
> >
> >
> > Steve
> >
> > I have the voltages and some look way out especially Q5.
> >
> > Table below shows the results, input voltage was 12.8v from an SLA battery.

> >
> > I await your diagnosis :)
> >
> > Regards
> >
> > Robert (m0rpf)
> > Receive Transmit
> > Emitter Base Collector Emitter Base Collector
> > Q2 14mv 14mv 14mv 30mv 0.68 0.68
> > Q3 14mv 14mv 21.9mv 30mv 0.76 31.1mv
> > Q4 14mv 14mv 14mv 126mv 0.68 12
> > Q5 0 0 0 0.14 0.14 12
> > Q6 0 0.66 0.66 0 0.66 0.68
> > Q7 0 0.42 2.2 0 0.42 2.2
> > Q8 0 0.54 2.17 0 0.56 2.17
> > Q9 0 0 0 2.2 3 10
> > Q10 0 0 0 2.99 2.65 3.24
> > Q11 3.96 3.56 7.46 3.99 3.58 7.46
> > Q12 3.35 3.9 7.45 3.35 3.9 7.45
> > Q13 3.6 4.2 8.53 3.6 4.2 8.55
> > Q14 0 0.64 4.52 0 0 0
> > Q15 1.9 2.58 8.27 0 0 0
> > Q16 4.19 4.29 7.1 4.19 4.31 7.1
> > Q17 3.85 4.523 11.63 0 0 0
> > Q18 4.33 3.98 7.14 4.33 3.98 7.14
> > Q19 2.6 3.4 6.8 0 0 0
> > Q20 0 0 0 2.6 3.3 6.8
> > Q21 0 0 0 1.92 2.59 8.22
> > Q22 0 0 0 2.28 2.94 9.38
> >
> >
> >
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> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > Hi Robert,
> > >
> > > First I don't think you have blown the output transistor as the current
> > > rises when adjusting the bias. The current in TX seems low, I normally see
> > > about 250mA (at 12.5V) before I adjust the bias, when adjusted it is
> > > 300mA.
> > >
> > > Just as a quick check see if Q5 the driver transistor (ZTX651) is getting
> > > hot when pressing the PTT - it should do! You are doing the right thing by
> > > checking voltages first.
> > >
> > > Regards,

> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: <rfullagar@>
> > > To: <mkars80@...>
> > > Sent: Wednesday, April 15, 2009 11:39 AM
> > > Subject: [mkars80] Help - No RF out
> > >
> > >
> > >
> > > I have come use to my mkars80 in anger and discovered I have no RF
> > > coming out.
> > >
> > > Receiver works fine, LCD shows what it should.
> > >
> > > Calibrated the PA, on tx with R2 fully anticlockwise I had 190ma so
> > > adjusted to 240ma. TP measures 10Mhz according to my frequency
> > > counter. When I press PTT I hear the relay click and the LED lights
> > > up. I am in the process of checking voltages and revisiting the mixer
> > > calibration should I look anywhere in particular (being a novice
> > > builder I need the pointers). I have tested the mic and it works fine,
> > > and checked and rechecked its wiring to the 3.5mm jack. Q1 measures
> > > what it should on on rx and tx.
> > >
> > > I did have a problem of the fuse blowing when putting the PCB into the
> > > case, could I have blown something?
> > >
> > > I have read a thread on the forum about no RF, check that already.
> > >
> > > Thanks in advance.
> > >
> > > Robert (m0rpf)
> > >
> > >
> > >
> > >
> > > http://www.tiscali.co.uk/wine - Save Â£25 off a case of wine today
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> > > No virus found in this incoming message.
> > > Checked by AVG - www.avg.com
> > > Version: 8.0.238 / Virus Database: 270.11.57/2059 - Release Date: 04/14/09
> > > 14:52:00
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> > Version: 8.0.238 / Virus Database: 270.11.57/2059 - Release Date: 04/14/09
> > 14:52:00
> >
>

872. Re: [mkars80] Re: Vernier dial drive.... info/source required.

Yahoo group: mkars80
Date: 2009-04-25 20:30:20 UTC
From: PHIL YATES
Topic: 864 Message: 872

Hi John.

Photo has answered my one question, I see you can cut the shaft down.
Will get on on order.

Many thanks
Phil G7BZD

--- On Fri, 24/4/09, John <John.Housego1@...> wrote:

From: John <John.Housego1@tiscali.co.uk>
Subject: [mkars80] Re: Vernier dial drive.... info/source required.
To: mkars80@...
Date: Friday, 24 April, 2009, 10:19 PM

Hello Phil,

I have fitted a 10:1 ball drive which fits very easily on to the existing polycon shaft take a look at the following link and also picture on this group photo albums / members radios / mkars80slowmo

http://www.mainline group.co. uk/jacksonbrothe rs/6020.htm

73 de John (M0TIF)

--- In mkars80@yahoogroups .co.uk, "philg7bzd@. .." <philg7bzd@. ..> wrote:

> I am now searching for a 1.5 inch vernier dial drive for the tuning, its one of the ones with a 8:1 ratio, cannot seem to find on in the UK,
> Regards
> Phil G7BZD
>

[Non-text portions of this message have been removed]

873. Re: [mkars80] Re: Help - No RF out

Yahoo group: mkars80
Date: 2009-04-26 20:59:03 UTC
From: Steve Drury
Topic: 853 Message: 873

Rob,

Q5 looks as though it is the right way round - check for a short between
base and emiter with the transistor left in circuit.

I have just checked one here and it reads 440 Ohms.

Steve G6ALU

----- Original Message -----
From: "rfullagar" <rfullagar@...>
To: <mkars80@...>
Sent: Saturday, April 25, 2009 8:11 PM
Subject: [mkars80] Re: Help - No RF out

Steve

Have you had a chance to examine the voltage readings in my post and check
if I have Q5 the right way around?

I still have no RF out :(

Rob (M0RPF)

--- In mkars80@..., "rfullagar" <rfullagar@...> wrote:
>
> Steve
>
> Anything is possible :)
>
> Q5 flat side faces Q9 as per the PCB overlay, the rounded edged side
> towards R2.
>
> No sure what the biasing resistors are but R19, R16, R22, R24 and R25
> those around Q5 have the correct colour coding..
>
> regards
>
> Robert
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Hello Robert,
> >
> > I don't have much time this evening but I wonder if Q5 is the wrong way
> > round or is one of its bias resistors the wrong value?

> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "rfullagar" <rfullagar@>
> > To: <mkars80@...>
> > Sent: Thursday, April 16, 2009 9:26 AM
> > Subject: [mkars80] Re: Help - No RF out
> >
> >
> > Steve
> >
> > I have the voltages and some look way out especially Q5.
> >
> > Table below shows the results, input voltage was 12.8v from an SLA
> > battery.
> >
> > I await your diagnosis :)
> >
> > Regards
> >
> > Robert (m0rpf)
> > Receive Transmit
> > Emitter Base Collector Emitter Base Collector
> > Q2 14mv 14mv 14mv 30mv 0.68 0.68
> > Q3 14mv 14mv 21.9mv 30mv 0.76 31.1mv
> > Q4 14mv 14mv 14mv 126mv 0.68 12
> > Q5 0 0 0 0.14 0.14 12
> > Q6 0 0.66 0.66 0 0.66 0.68
> > Q7 0 0.42 2.2 0 0.42 2.2
> > Q8 0 0.54 2.17 0 0.56 2.17
> > Q9 0 0 0 2.2 3 10
> > Q10 0 0 0 2.99 2.65 3.24
> > Q11 3.96 3.56 7.46 3.99 3.58 7.46
> > Q12 3.35 3.9 7.45 3.35 3.9 7.45
> > Q13 3.6 4.2 8.53 3.6 4.2 8.55
> > Q14 0 0.64 4.52 0 0 0
> > Q15 1.9 2.58 8.27 0 0 0
> > Q16 4.19 4.29 7.1 4.19 4.31 7.1
> > Q17 3.85 4.523 11.63 0 0 0
> > Q18 4.33 3.98 7.14 4.33 3.98 7.14
> > Q19 2.6 3.4 6.8 0 0 0
> > Q20 0 0 0 2.6 3.3 6.8
> > Q21 0 0 0 1.92 2.59 8.22
> > Q22 0 0 0 2.28 2.94 9.38
> >
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> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > Hi Robert,
> > >
> > > First I don't think you have blown the output transistor as the
> > > current
> > > rises when adjusting the bias. The current in TX seems low, I normally
> > > see
> > > about 250mA (at 12.5V) before I adjust the bias, when adjusted it is
> > > 300mA.
> > >
> > > Just as a quick check see if Q5 the driver transistor (ZTX651) is
> > > getting
> > > hot when pressing the PTT - it should do! You are doing the right
> > > thing by
> > > checking voltages first.
> > >
> > > Regards,
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: <rfullagar@>
> > > To: <mkars80@...>
> > > Sent: Wednesday, April 15, 2009 11:39 AM
> > > Subject: [mkars80] Help - No RF out
> > >
> > >
> > >
> > > I have come use to my mkars80 in anger and discovered I have no RF
> > > coming out.
> > >
> > > Receiver works fine, LCD shows what it should.
> > >
> > > Calibrated the PA, on tx with R2 fully anticlockwise I had 190ma so
> > > adjusted to 240ma. TP measures 10Mhz according to my frequency
> > > counter. When I press PTT I hear the relay click and the LED lights
> > > up. I am in the process of checking voltages and revisiting the mixer
> > > calibration should I look anywhere in particular (being a novice
> > > builder I need the pointers). I have tested the mic and it works
> > > fine,
> > > and checked and rechecked its wiring to the 3.5mm jack. Q1 measures
> > > what it should on on rx and tx.
> > >
> > > I did have a problem of the fuse blowing when putting the PCB into the
> > > case, could I have blown something?
> > >
> > > I have read a thread on the forum about no RF, check that already.
> > >

> > > Thanks in advance.
> > >
> > > Robert (m0rpf)
> > >
> > >
> > >
> > >
> > > http://www.tiscali.co.uk/wine - Save £25 off a case of wine today
> > > _____
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> > > 04/14/09
> > > 14:52:00
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> > 14:52:00
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>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.4/2079 - Release Date: 04/24/09
19:04:00

874. Re: [mkars80] Digest Number 218

Yahoo group: mkars80
Date: 2009-04-27 01:48:59 UTC
From: David Yarnes
Topic: 874 Message: 874

MKARS80Ken and All,

Mine did! I just adjusted the cap, and I have just over 400 khz., from just below 3.6 to just above 4.0 mhz.

Dave W7AQK

----- Original Message -----
From: mkars80@...
To: mkars80@...
Sent: Thursday, April 23, 2009 1:58 AM
Subject: [mkars80] Digest Number 218

MKARS80
Messages In This Digest (1 Message)
1. Alignment For USA Band Allocation Coverage From: e_larson_esq
View All Topics | Create New Topic Message
1. Alignment For USA Band Allocation Coverage
Posted by: "e_larson_esq" e_larson_esq@... e_larson_esq
Thu Apr 23, 2009 6:08 am

I've posted my order and am eagerly waiting for my kit to arrive.
During alignment, will adjusting C38 and the trimmer on
the Polyvaricon allow for the freq coverage up into
the 3.6-4.0 MHz range? (USA Extra Class SSB priviledge)
Or 300 KHz somewhere in that range?
Has that been the experience of anyone who has completed the project?
Or will I perhaps have to pad a small cap
across C38?
TNX, Ken AD6KA

Back to top Reply to sender | Reply to group | Reply via web post
Messages in this topic (1) Recent Activity
a.. 6 New Members
Visit Your Group
Yahoo! 360
Share what matters

Share your photos, blog.

Control who sees what.

Yahoo! Toolbar
Get it Free!

easy 1-click access

to your groups.

Yahoo! Groups
Start a group

in 3 easy steps.

Connect with others.

Need to Reply?
Click one of the "Reply" links to respond to a specific message in the Daily Digest.
Create New Topic | Visit Your Group on the Web
Messages | Files | Photos | Links

Change settings via the Web (Yahoo! ID required)
Change settings via email: Switch delivery to Individual | Switch format to Traditional
Visit Your Group | Yahoo! Groups Terms of Use | Unsubscribe

[Non-text portions of this message have been removed]

875. Help- Mixer Balance

Yahoo group: mkars80
Date: 2009-04-27 10:33:48 UTC
From: g2e1hjt
Topic: 875 Message: 875

I have just completed my MKARS80 kit and i have hit a problem when trying to set the mixer balance.
While monitoring the waveform at the emitter of Q16 using a scope, moving R59 has no effect at all, but adjustment of C103 does produce a change.I have checked R59 off the board and it seems to function OK. Where should i look to resolve this problem?
I am a complete novice so any suggestions as to my next move would be greatly appreciated.
73
Dave

876. Re: Help - No RF out

Yahoo group: mkars80
Date: 2009-04-27 11:27:55 UTC
From: rfullagar
Topic: 853 Message: 876

Steve

hmmm...must have a short as I'm not reading 440ohms :(

Had a good look around nothing obvious, so I unsoldered and reseated Q5 which has resolved the problem. I'm reading 240mA for the pa on transmit (adjusted to 290mA) and I now have approx 4.5Watts out.

Are you still taking orders for the CW module? Last post I saw said something about quick builders only and you may rethink the price due to effort to package the kit.

I am off work for a few weeks so have some time on my hands :)

Rob (m0rpf)

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Rob,
>
> Q5 looks as though it is the right way round - check for a short between
> base and emiter with the transistor left in circuit.
>
> I have just checked one here and it reads 440 Ohms.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "rfullagar" <rfullagar@...>
> To: <mkars80@...>
> Sent: Saturday, April 25, 2009 8:11 PM
> Subject: [mkars80] Re: Help - No RF out
>
>
> Steve
>
> Have you had a chance to examine the voltage readings in my post and check
> if I have Q5 the right way around?
>
> I still have no RF out :(
>
> Rob (M0RPF)
>
> --- In mkars80@....uk, "rfullagar" <rfullagar@> wrote:
> >
> > Steve
> >

> > Anything is possible :)
> >
> > Q5 flat side faces Q9 as per the PCB overlay, the rounded edged side
> > towards R2.
> >
> > No sure what the biasing resistors are but R19, R16, R22, R24 and R25
> > those around Q5 have the correct colour coding..
> >
> > regards
> >
> > Robert
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> > >
> > > Hello Robert,
> > >
> > > I don't have much time this evening but I wonder if Q5 is the wrong way
> > > round or is one of its bias resistors the wrong value?
> > >
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "rfullagar" <rfullagar@>
> > > To: <mkars80@...>
> > > Sent: Thursday, April 16, 2009 9:26 AM
> > > Subject: [mkars80] Re: Help - No RF out
> > >
> > >
> > > Steve
> > >
> > > I have the voltages and some look way out especially Q5.
> > >
> > > Table below shows the results, input voltage was 12.8v from an SLA
> > > battery.
> > >
> > > I await your diagnosis :)
> > >
> > > Regards
> > >
> > > Robert (m0rpf)
> > > Receive Transmit
> > > Emitter Base Collector Emitter Base Collector
> > > Q2 14mv 14mv 14mv 30mv 0.68 0.68
> > > Q3 14mv 14mv 21.9mv 30mv 0.76 31.1mv
> > > Q4 14mv 14mv 14mv 126mv 0.68 12
> > > Q5 0 0 0 0.14 0.14 12
> > > Q6 0 0.66 0.66 0 0.66 0.68
> > > Q7 0 0.42 2.2 0 0.42 2.2
> > > Q8 0 0.54 2.17 0 0.56 2.17

> > > Q9 0 0 0 2.2 3 10
> > > Q10 0 0 0 2.99 2.65 3.24
> > > Q11 3.96 3.56 7.46 3.99 3.58 7.46
> > > Q12 3.35 3.9 7.45 3.35 3.9 7.45
> > > Q13 3.6 4.2 8.53 3.6 4.2 8.55
> > > Q14 0 0.64 4.52 0 0 0
> > > Q15 1.9 2.58 8.27 0 0 0
> > > Q16 4.19 4.29 7.1 4.19 4.31 7.1
> > > Q17 3.85 4.523 11.63 0 0 0
> > > Q18 4.33 3.98 7.14 4.33 3.98 7.14
> > > Q19 2.6 3.4 6.8 0 0 0
> > > Q20 0 0 0 2.6 3.3 6.8
> > > Q21 0 0 0 1.92 2.59 8.22
> > > Q22 0 0 0 2.28 2.94 9.38
> > >
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> > >
> > >
> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > > >
> > > > Hi Robert,
> > > >
> > > > First I don't think you have blown the output transistor as the
> > > > current
> > > > rises when adjusting the bias. The current in TX seems low, I normally
> > > > see
> > > > about 250mA (at 12.5V) before I adjust the bias, when adjusted it is
> > > > 300mA.
> > > >
> > > > Just as a quick check see if Q5 the driver transistor (ZTX651) is
> > > > getting
> > > > hot when pressing the PTT - it should do! You are doing the right
> > > > thing by
> > > > checking voltages first.
> > > >
> > > > Regards,
> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----
> > > > From: <rfullagar@>
> > > > To: <mkars80@...>
> > > > Sent: Wednesday, April 15, 2009 11:39 AM
> > > > Subject: [mkars80] Help - No RF out
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> > > >
> > > >
> > > > I have come use to my mkars80 in anger and discovered I have no RF

> > > > coming out.
> > > >
> > > > Receiver works fine, LCD shows what it should.
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> > > > Calibrated the PA, on tx with R2 fully anticlockwise I had 190ma so
> > > > adjusted to 240ma. TP measures 10Mhz according to my frequency
> > > > counter. When I press PTT I hear the relay click and the LED lights
> > > > up. I am in the process of checking voltages and revisiting the mixer
> > > > calibration should I look anywhere in particular (being a novice
> > > > builder I need the pointers). I have tested the mic and it works
> > > > fine,
> > > > and checked and rechecked its wiring to the 3.5mm jack. Q1 measures
> > > > what it should on on rx and tx.
> > > >
> > > > I did have a problem of the fuse blowing when putting the PCB into the
> > > > case, could I have blown something?
> > > >
> > > > I have read a thread on the forum about no RF, check that already.
> > > >
> > > > Thanks in advance.
> > > >
> > > > Robert (m0rpf)
> > > >
> > > >
> > > >
> > > >
> > > > http://www.tiscali.co.uk/wine - Save Â£25 off a case of wine today
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> 19:04:00
>

877. Re: [mkars80] Help- Mixer Balance

Yahoo group: mkars80
Date: 2009-04-27 20:05:03 UTC
From: Steve Drury
Topic: 875 Message: 877

First adjust C103 and then R59, remember R59 is a multi-turn preset; turn it at least 10-15 turns in one direction before doing the same the other way. Both controls are interdependent - whilst adjusting make sure you don't have any audio into the microphone, I plug in a mono jack plug which shorts the PTT.

Steve G6ALU

----- Original Message -----
From: "g2e1hjt" <dave-millington@...>
To: <mkars80@...>
Sent: Monday, April 27, 2009 11:33 AM
Subject: [mkars80] Help- Mixer Balance

>I have just completed my MKARS80 kit and i have hit a problem when trying
>to set the mixer balance.
> While monitoring the waveform at the emitter of Q16 using a scope, moving
> R59 has no effect at all, but adjustment of C103 does produce a change.I
> have checked R59 off the board and it seems to function OK. Where should i
> look to resolve this problem?
> I am a complete novice so any suggestions as to my next move would be
> greatly appreciated.
> 73
> Dave
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.4/2082 - Release Date: 04/27/09 06:19:00

878. Re: [mkars80] Re: Help - No RF out

Yahoo group: mkars80
Date: 2009-04-27 20:02:17 UTC
From: Steve Drury
Topic: 853 Message: 878

Some times its like that, thin slivers of solder can be nearly invisible.

Yes I'm taking orders for the CW module now, I've not advertised the fact as few have been built and I'm eager to get any problems sorted (none so far....) before I get deluged with orders.

I re-evaluated the time it took us to pack the CW adapters and have now fixed the price at ?28, this includes the keyer which is no longer an option. Postage will be an extra ?3.

Steve G6ALU

----- Original Message -----
From: "rfullagar" <rfullagar@...>
To: <mkars80@...>
Sent: Monday, April 27, 2009 12:27 PM
Subject: [mkars80] Re: Help - No RF out

Steve

hmmm...must have a short as I'm not reading 440ohms :(

Had a good look around nothing obvious, so I unsoldered and reseated Q5 which has resolved the problem. I'm reading 240mA for the pa on transmit (adjusted to 290mA) and I now have approx 4.5Watts out.

Are you still taking orders for the CW module? Last post I saw said something about quick builders only and you may rethink the price due to effort to package the kit.

I am off work for a few weeks so have some time on my hands :)

Rob (m0rpf)

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Rob,
>
> Q5 looks as though it is the right way round - check for a short between
> base and emiter with the transistor left in circuit.
>
> I have just checked one here and it reads 440 Ohms.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "rfullagar" <rfullagar@...>
> To: <mkars80@...>

> Sent: Saturday, April 25, 2009 8:11 PM
> Subject: [mkars80] Re: Help - No RF out
>
>
> Steve
>
> Have you had a chance to examine the voltage readings in my post and check
> if I have Q5 the right way around?
>
> I still have no RF out :(
>
> Rob (M0RPF)
>
> --- In mkars80@..., "rfullagar" <rfullagar@> wrote:
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> > Steve
> >
> > Anything is possible :)
> >
> > Q5 flat side faces Q9 as per the PCB overlay, the rounded edged side
> > towards R2.
> >
> > No sure what the biasing resistors are but R19, R16, R22, R24 and R25
> > those around Q5 have the correct colour coding..
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> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
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> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "rfullagar" <rfullagar@>
> > > To: <mkars80@...>
> > > Sent: Thursday, April 16, 2009 9:26 AM
> > > Subject: [mkars80] Re: Help - No RF out
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> > > Steve
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> > > I have the voltages and some look way out especially Q5.

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> > > Table below shows the results, input voltage was 12.8v from an SLA
> > > battery.
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> > > Robert (m0rpf)
> > > Receive Transmit
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> > > Q12 3.35 3.9 7.45 3.35 3.9 7.45
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> > > Q15 1.9 2.58 8.27 0 0 0
> > > Q16 4.19 4.29 7.1 4.19 4.31 7.1
> > > Q17 3.85 4.523 11.63 0 0 0
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> > > Q19 2.6 3.4 6.8 0 0 0
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> > > Q21 0 0 0 1.92 2.59 8.22
> > > Q22 0 0 0 2.28 2.94 9.38
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> > >
> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > > >
> > > > Hi Robert,
> > > >
> > > > First I don't think you have blown the output transistor as the
> > > > current
> > > > rises when adjusting the bias. The current in TX seems low, I
> > > > normally
> > > > see
> > > > about 250mA (at 12.5V) before I adjust the bias, when adjusted it is
> > > > 300mA.

> > > >
> > > > Just as a quick check see if Q5 the driver transistor (ZTX651) is
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> > > > hot when pressing the PTT - it should do! You are doing the right
> > > > thing by
> > > > checking voltages first.
> > > >
> > > > Regards,
> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----
> > > > From: <rfullagar@>
> > > > To: <mkars80@...>
> > > > Sent: Wednesday, April 15, 2009 11:39 AM
> > > > Subject: [mkars80] Help - No RF out
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> > > > adjusted to 240ma. TP measures 10Mhz according to my frequency
> > > > counter. When I press PTT I hear the relay click and the LED lights
> > > > up. I am in the process of checking voltages and revisiting the
> > > > mixer
> > > > calibration should I look anywhere in particular (being a novice
> > > > builder I need the pointers). I have tested the mic and it works
> > > > fine,
> > > > and checked and rechecked its wiring to the 3.5mm jack. Q1 measures
> > > > what it should on on rx and tx.
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> > > > the
> > > > case, could I have blown something?
> > > >
> > > > I have read a thread on the forum about no RF, check that already.
> > > >
> > > > Thanks in advance.
> > > >
> > > > Robert (m0rpf)
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > http://www.tiscali.co.uk/wine - Save £25 off a case of wine today
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Yahoo! Groups Links

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Version: 8.0.238 / Virus Database: 270.12.4/2082 - Release Date: 04/27/09
06:19:00

879. Re: Alignment For USA Band Allocation Coverage

Yahoo group: mkars80
Date: 2009-04-27 21:09:45 UTC
From: dyarnes1
Topic: 862 Message: 879

Ken and All,

Mine did! I just adjusted the cap, and I have just over 400 khz., from just below 3.6 to just above 4.0 mhz.

Dave W7AQK

--- In mkars80@..., "e_larson_esq" <e_larson_esq@...> wrote:
>
> I've posted my order and am eagerly waiting for my kit to arrive.
> During alignment, will adjusting C38 and the trimmer on
> the Polyvaricon allow for the freq coverage up into
> the 3.6-4.0 MHz range? (USA Extra Class SSB priviledge)
> Or 300 KHz somewhere in that range?
> Has that been the experience of anyone who has completed the project?
> Or will I perhaps have to pad a small cap
> across C38?
> TNX, Ken AD6KA
>

880. Re: [mkars80] Re: Alignment For USA Band Allocation Coverage

Yahoo group: mkars80
Date: 2009-04-27 21:26:01 UTC
From: Steve Drury
Topic: 862 Message: 880

I'm just repairing a radio - found out that if the VFO coil only has 33 turns (should be 40) it will tune across the full band with many kHz to spare!

Steve G6ALU

----- Original Message -----
From: "dyarnes1" <w7aqk@...>
To: <mkars80@...>
Sent: Monday, April 27, 2009 10:09 PM
Subject: [mkars80] Re: Alignment For USA Band Allocation Coverage

> Ken and All,
>
> Mine did! I just adjusted the cap, and I have just over 400 khz., from
> just below 3.6 to just above 4.0 mhz.
>
> Dave W7AQK
>
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>
> --- In mkars80@..., "e_larson_esq" <e_larson_esq@...> wrote:
>>
>> I've posted my order and am eagerly waiting for my kit to arrive.
>> During alignment, will adjusting C38 and the trimmer on
>> the Polyvaricon allow for the freq coverage up into
>> the 3.6-4.0 MHz range? (USA Extra Class SSB priviledge)
>> Or 300 KHz somewhere in that range?
>> Has that been the experience of anyone who has completed the project?
>> Or will I perhaps have to pad a small cap
>> across C38?
>> TNX, Ken AD6KA
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.4/2082 - Release Date: 04/27/09
06:19:00

881. Re: [mkars80] Re: Alignment For USA Band Allocation Coverage

Yahoo group: mkars80
Date: 2009-04-27 21:41:01 UTC
From: Liz & Tony Buckland
Topic: 862 Message: 881

Hello Steve & others,

Just for interest with the small trimmer on the top of the varicon
out of mesh I get 3.464 - 3.932, which is a 468KHz spread.

73 Tony ZL3HAM

>I'm just repairing a radio - found out that if the VFO coil only has 33
>turns (should be 40) it will tune across the full band with many kHz to
>spare!
>
>Steve G6ALU
>
>----- Original Message -----
>From: "dyarnes1" <<mailto:w7aqk%40cox.net>w7aqk@...>
>To: <<mailto:mkars80%40yahoogroups.co.uk>mkars80@...>
>Sent: Monday, April 27, 2009 10:09 PM
>Subject: [mkars80] Re: Alignment For USA Band Allocation Coverage
>
> > Ken and All,
> >
> > Mine did! I just adjusted the cap, and I have just over 400 khz., from
> > just below 3.6 to just above 4.0 mhz.
> >
> > Dave W7AQK
> >
> >
> >
> > --- In
> <mailto:mkars80%40yahoogroups.co.uk>mkars80@...,
> "e_larson_esq" <e_larson_esq@...> wrote:
> >>
> >> I've posted my order and am eagerly waiting for my kit to arrive.
> >> During alignment, will adjusting C38 and the trimmer on
> >> the Polyvaricon allow for the freq coverage up into
> >> the 3.6-4.0 MHz range? (USA Extra Class SSB priviledge)
> >> Or 300 KHz somewhere in that range?
> >> Has that been the experience of anyone who has completed the project?
> >> Or will I perhaps have to pad a small cap
> >> across C38?
> >> TNX, Ken AD6KA
> >>
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> > Yahoo! Groups Links
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.0.238 / Virus Database: 270.12.4/2082 - Release Date: 04/27/09
>06:19:00
>
>

[Non-text portions of this message have been removed]

882. Component location grid

Yahoo group: mkars80
Date: 2009-04-28 15:25:02 UTC
From: Master Ice
Topic: 882 Message: 882

I hope you don't mind Steve, but I've posted a (hopefully correct) PDF file of the pcb layout with a grid overlay along with the component numbers and their corresponding grid positions.

Hopefully some members may find this useful if their eyeballs are a tad aged (as are mine)

It's in the groups Files section HERE
<http://uk.groups.yahoo.com/group/mkars80/files/MKARS80%20Component%20gr\
id/>

Like I say, I hope you don't mind me posting this.

All the Best

Slim Haines G4IPZ

[Non-text portions of this message have been removed]

883. Re: Help- Mixer Balance

Yahoo group: mkars80
Date: 2009-04-28 17:23:41 UTC
From: g2e1hjt
Topic: 875 Message: 883

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
Thanks for coming back to me Steve. I have monitored the wave form while i turn the R59 pot from one end of its travel to the other but there is no change. i have done this while using your technique of using a mono plug in the mic input.Is monitoring at the emitter of Q16 ok? If it is what should i try next?
73
Dave
> First adjust C103 and then R59, remember R59 is a multi-turn preset; turn it
> at least 10-15 turns in one direction before doing the same the other way.
> Both controls are interdependent - whilst adjusting make sure you don't have
> any audio into the microphone, I plug in a mono jack plug which shorts the
> PTT.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g2e1hjt" <dave-millington@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Monday, April 27, 2009 11:33 AM
> Subject: [mkars80] Help- Mixer Balance
>
>
> >I have just completed my MKARS80 kit and i have hit a problem when trying
> >to set the mixer balance.
> > While monitoring the waveform at the emitter of Q16 using a scope, moving
> > R59 has no effect at all, but adjustment of C103 does produce a change.I
> > have checked R59 off the board and it seems to function OK. Where should i
> > look to resolve this problem?
> > I am a complete novice so any suggestions as to my next move would be
> > greatly appreciated.
> > 73
> > Dave
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.12.4/2082 - Release Date: 04/27/09
> 06:19:00
>

884. Prelim transceiver checkout done, all OK

Yahoo group: mkars80
Date: 2009-04-29 03:34:34 UTC
From: Steve Ratzlaff
Topic: 884 Message: 884

I received my kit yesterday and have the board finished and working today. Initial checkout indicated no VFO output--I found a cold solder joint where I didn't fully strip one lead of the L5 VFO coil. Once that was corrected, the display showed a proper frequency, and I could proceed to do the initial adjustments. My L5 was initially 5.6 uH with 40 turns; by spreading the turns I got it down to 4.9 uH and left it there (using the aade.com LC meter to measure L5). That seems to work fine. I get 3554-4000 kHz tuning range.
For mixer balance, with C103 arbitrarily set to midpoint, R59 gave a clear minimum adjustment using the 100 mW range of my WM-2 power meter, showing zero on the meter. The modulation LED also began to glow when this adjustment was done.
The hardest part of the board construction was getting the #38 stripped wires into the holes for the 3 trifilar transformers. There were no missing components, with one extra 0.1 uF capacitor left over. I don't have a microphone yet to test actual SSB output. I think I have a properly-working board now, and will proceed on to the mechanical construction of the enclosure to hold the board.
For the very low price of the kit, I did not expect the board assembly to be very difficult, but I was wrong--it was much more challenging (and enjoyable!) than I expected. This kit gets very high marks for building-enjoyment!
73,
Steve AA7U
NE Oregon, USA

885. CW Adapter

Yahoo group: mkars80
Date: 2009-04-29 08:49:33 UTC
From: Tony Buckland
Topic: 885 Message: 885

Hello Steve,

On page 10 of the instructions you mention a "drilling template is provided" is this available yet please?

I look forward to receiving the kits.

Thanks.
73 Tony ZL3HAM

886. Re: [mkars80] CW Adapter

Yahoo group: mkars80
Date: 2009-04-29 09:28:42 UTC
From: John Housego
Topic: 885 Message: 886

Hello Tony,

See Steve's web site www.radio-kits.co.uk/ everything you need including drilling template and construction manual etc can be found for download from there. Good luck with the kit.

John (M0TIF)

On Wed, 2009-04-29 at 08:49 +0000, Tony Buckland wrote:
>
>
> Hello Steve,
>
> On page 10 of the instructions you mention a "drilling template is
> provided" is this available yet please?
>
> I look forward to receiving the kits.
>
> Thanks.
> 73 Tony ZL3HAM
>
>
>
>
>

[Non-text portions of this message have been removed]

887. Re: [mkars80] CW Adapter

Yahoo group: mkars80
Date: 2009-04-29 10:08:46 UTC
From: Liz & Tony Buckland
Topic: 885 Message: 887

Hello John,

Thanks for the email. I was actually after the drilling template for
the new CW Adapter. I have already successfully built three MKARS80
kits and now await the arrival of the CW adapters to go with them.
They will be a great addition.

73 Tony ZL3HAM

At 21:28 29/04/2009, you wrote:

>Hello Tony,
>
>See Steve's web site www.radio-kits.co.uk/ everything you need including
>drilling template and construction manual etc can be found for download
>from there. Good luck with the kit.
>
>John (M0TIF)
>
>On Wed, 2009-04-29 at 08:49 +0000, Tony Buckland wrote:
> >
> >
> > Hello Steve,
> >
> > On page 10 of the instructions you mention a "drilling template is
> > provided" is this available yet please?
> >
> > I look forward to receiving the kits.
> >
> > Thanks.
> > 73 Tony ZL3HAM
> >
> >
> >
> >
> >
>
>[Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

888. resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-29 18:31:28 UTC
From: Steve Ratzlaff
Topic: 888 Message: 888

Is there a way to re-size the enclosure drilling template and then print it out? When printed from the .pdf drilling template file, it's far too small. The size can be zoomed in and out, but it can't be printed at that new size; it always goes back to the original size when a print is tried.

73,
Steve AA7U

889. Re: resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-29 18:45:29 UTC
From: Master Ice
Topic: 888 Message: 889

Hi Steve.

When printing from Adobe acrobat check the setting of the Page Scaling option on the Print window is set to "None".

Give that a try.

Slim G4IPZ

--- In mkars80@..., "Steve Ratzlaff" <steveratz@...> wrote:
>
> Is there a way to re-size the enclosure drilling template and then print it
> out? When printed from the .pdf drilling template file, it's far too small.
> The size can be zoomed in and out, but it can't be printed at that new size;
> it always goes back to the original size when a print is tried.
>
> 73,
> Steve AA7U
>

890. Re: Help- Mixer Balance

Yahoo group: mkars80
Date: 2009-04-29 18:54:31 UTC
From: g2e1hjt
Topic: 875 Message: 890

Sorry I think i messed up the reply so here it is again
> Thanks for coming back to me Steve. I have monitored the wave form while i turn the R59 pot from one end of its travel to the other but there is no change. i have done this while using your technique of using a mono plug in the mic input.Is monitoring at the emitter of Q16 ok? If it is what should i try next?
> 73
> Dave
> > First adjust C103 and then R59, remember R59 is a multi-turn preset; turn it
> > at least 10-15 turns in one direction before doing the same the other way.
> > Both controls are interdependent - whilst adjusting make sure you don't have
> > any audio into the microphone, I plug in a mono jack plug which shorts the
> > PTT.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "g2e1hjt" <dave-millington@>
> > To: <mkars80@...>
> > Sent: Monday, April 27, 2009 11:33 AM
> > Subject: [mkars80] Help- Mixer Balance
> >
> >
> > >I have just completed my MKARS80 kit and i have hit a problem when trying
> > >to set the mixer balance.
> > > While monitoring the waveform at the emitter of Q16 using a scope, moving
> > > R59 has no effect at all, but adjustment of C103 does produce a change.I
> > > have checked R59 off the board and it seems to function OK. Where should i
> > > look to resolve this problem?
> > > I am a complete novice so any suggestions as to my next move would be
> > > greatly appreciated.
> > > 73
> > > Dave
> > >
> > >
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> > > Yahoo! Groups Links
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> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.0.238 / Virus Database: 270.12.4/2082 - Release Date: 04/27/09
> > 06:19:00
> >
>

891. RE: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-29 19:12:32 UTC
From: Ray Stringfellow
Topic: 888 Message: 891

Steve,

The page is correct size when printed on A4 paper and page scaling
is set to none.

Ray

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Ratzlaff
Sent: 29 April 2009 19:31
To: mkars80@...
Subject: [mkars80] resizing enclosure drilling template?

Is there a way to re-size the enclosure drilling template and then print it
out? When printed from the .pdf drilling template file, it's far too small.
The size can be zoomed in and out, but it can't be printed at that new size;

it always goes back to the original size when a print is tried.

73,
Steve AA7U

[Non-text portions of this message have been removed]

892. Re: [mkars80] Re: Help- Mixer Balance

Yahoo group: mkars80
Date: 2009-04-29 19:21:31 UTC
From: Steve Drury
Topic: 875 Message: 892

That's where the problem is - measure at the drain (tab) of Q1 the output transistor.

Regards,
Steve G6ALU

----- Original Message -----
From: "g2e1hjt" <dave-millington@...>
To: <mkars80@...>
Sent: Wednesday, April 29, 2009 7:54 PM
Subject: [mkars80] Re: Help- Mixer Balance

> Sorry I think i messed up the reply so here it is again
>> Thanks for coming back to me Steve. I have monitored the wave form while
>> i turn the R59 pot from one end of its travel to the other but there is
>> no change. i have done this while using your technique of using a mono
>> plug in the mic input.Is monitoring at the emitter of Q16 ok? If it is
>> what should i try next?
>> 73
>> Dave
>> > First adjust C103 and then R59, remember R59 is a multi-turn preset;
>> > turn it
>> > at least 10-15 turns in one direction before doing the same the other
>> > way.
>> > Both controls are interdependent - whilst adjusting make sure you don't
>> > have
>> > any audio into the microphone, I plug in a mono jack plug which shorts
>> > the
>> > PTT.
>> >
>> > Steve G6ALU
>> >
>> > ----- Original Message -----
>> > From: "g2e1hjt" <dave-millington@>
>> > To: <mkars80@...>
>> > Sent: Monday, April 27, 2009 11:33 AM
>> > Subject: [mkars80] Help- Mixer Balance
>> >
>> >
>> > >I have just completed my MKARS80 kit and i have hit a problem when
>> > >trying
>> > >to set the mixer balance.
>> > > While monitoring the waveform at the emitter of Q16 using a scope,
>> > > moving
>> > > R59 has no effect at all, but adjustment of C103 does produce a
>> > > change.I

>> > > have checked R59 off the board and it seems to function OK. Where
>> > > should i
>> > > look to resolve this problem?
>> > > I am a complete novice so any suggestions as to my next move would be
>> > > greatly appreciated.
>> > > 73
>> > > Dave
>> > >
>> > >
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>> > No virus found in this incoming message.
>> > Checked by AVG - www.avg.com
>> > Version: 8.0.238 / Virus Database: 270.12.4/2082 - Release Date:
>> > 04/27/09
>> > 06:19:00
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>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.8/2086 - Release Date: 04/29/09
06:37:00

893. Re: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-29 19:37:46 UTC
From: Steve Ratzlaff
Topic: 888 Message: 893

Hi Ray and Slim,
Thanks for the comments.
I figured out how to set to A4 page size, but couldn't find anything about scaling options. As a result, nothing is changed from the original too-small printed size.
73,
Steve
----- Original Message -----
From: "Ray Stringfellow" <g4tzr@...>
To: <mkars80@...>
Sent: Wednesday, April 29, 2009 12:12 PM
Subject: RE: [mkars80] resizing enclosure drilling template?

> Steve,
>
> The page is correct size when printed on A4 paper and page
> scaling
> is set to none.
>
> Ray
>
>
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Ratzlaff
> Sent: 29 April 2009 19:31
> To: mkars80@...
> Subject: [mkars80] resizing enclosure drilling template?
>
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>
> Is there a way to re-size the enclosure drilling template and then print
> it
> out? When printed from the .pdf drilling template file, it's far too
> small.
> The size can be zoomed in and out, but it can't be printed at that new
> size;
>

> it always goes back to the original size when a print is tried.
>
> 73,
> Steve AA7U
>
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> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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894. Re: Help- Mixer Balance

Yahoo group: mkars80
Date: 2009-04-29 19:47:16 UTC
From: g2e1hjt
Topic: 875 Message: 894

Thats it Steve!! Mixer now adjusted! Now for the on air test:) Many thanks for your help.
Dave 2E1HJT
--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> That's where the problem is - measure at the drain (tab) of Q1 the output
> transistor.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "g2e1hjt" <dave-millington@...>
> To: <mkars80@...>
> Sent: Wednesday, April 29, 2009 7:54 PM
> Subject: [mkars80] Re: Help- Mixer Balance
>
>
> > Sorry I think i messed up the reply so here it is again
> >> Thanks for coming back to me Steve. I have monitored the wave form while
> >> i turn the R59 pot from one end of its travel to the other but there is
> >> no change. i have done this while using your technique of using a mono
> >> plug in the mic input.Is monitoring at the emitter of Q16 ok? If it is
> >> what should i try next?
> >> 73
> >> Dave
> >> > First adjust C103 and then R59, remember R59 is a multi-turn preset;
> >> > turn it
> >> > at least 10-15 turns in one direction before doing the same the other
> >> > way.
> >> > Both controls are interdependent - whilst adjusting make sure you don't
> >> > have
> >> > any audio into the microphone, I plug in a mono jack plug which shorts
> >> > the
> >> > PTT.
> >> >
> >> > Steve G6ALU
> >> >
> >> > ----- Original Message -----
> >> > From: "g2e1hjt" <dave-millington@>
> >> > To: <mkars80@yahoogroups.co.uk>
> >> > Sent: Monday, April 27, 2009 11:33 AM
> >> > Subject: [mkars80] Help- Mixer Balance
> >> >
> >> >
> >> > >I have just completed my MKARS80 kit and i have hit a problem when

> >> > >trying
> >> > >to set the mixer balance.
> >> > > While monitoring the waveform at the emitter of Q16 using a scope,
> >> > > moving
> >> > > R59 has no effect at all, but adjustment of C103 does produce a
> >> > > change.I
> >> > > have checked R59 off the board and it seems to function OK. Where
> >> > > should i
> >> > > look to resolve this problem?
> >> > > I am a complete novice so any suggestions as to my next move would be
> >> > > greatly appreciated.
> >> > > 73
> >> > > Dave
> >> > >
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>
> No virus found in this incoming message.
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> Version: 8.0.238 / Virus Database: 270.12.8/2086 - Release Date: 04/29/09
> 06:37:00
>

895. Re: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-29 19:52:07 UTC
From: Steve Drury
Topic: 888 Message: 895

I hope the attached picture explains?

Steve G6ALU

----- Original Message -----
From: "Steve Ratzlaff" <steveratz@...>
To: <mkars80@...>
Sent: Wednesday, April 29, 2009 8:37 PM
Subject: Re: [mkars80] resizing enclosure drilling template?

> Hi Ray and Slim,
> Thanks for the comments.
> I figured out how to set to A4 page size, but couldn't find anything about
> scaling options. As a result, nothing is changed from the original
> too-small
> printed size.
> 73,
> Steve
> ----- Original Message -----
> From: "Ray Stringfellow" <g4tzr@...>
> To: <mkars80@...>
> Sent: Wednesday, April 29, 2009 12:12 PM
> Subject: RE: [mkars80] resizing enclosure drilling template?
>
>
>> Steve,
>>
>> The page is correct size when printed on A4 paper and page
>> scaling
>> is set to none.
>>
>> Ray
>>
>>
>>
>> -----Original Message-----
>> From: mkars80@... [mailto:mkars80@...] On
>> Behalf
>> Of Steve Ratzlaff
>> Sent: 29 April 2009 19:31
>> To: mkars80@...
>> Subject: [mkars80] resizing enclosure drilling template?
>>
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>>
>> Is there a way to re-size the enclosure drilling template and then print
>> it
>> out? When printed from the .pdf drilling template file, it's far too
>> small.
>> The size can be zoomed in and out, but it can't be printed at that new
>> size;
>>
>> it always goes back to the original size when a print is tried.
>>
>> 73,
>> Steve AA7U
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>> [Non-text portions of this message have been removed]
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.8/2086 - Release Date: 04/29/09
06:37:00

[Non-text portions of this message have been removed]

896. Re: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-29 19:54:55 UTC
From: Steve Drury
Topic: 888 Message: 896

Didn't work! I wil place it in the files section and announce it.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Wednesday, April 29, 2009 8:52 PM
Subject: Re: [mkars80] resizing enclosure drilling template?

>I hope the attached picture explains?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Ratzlaff" <steveratz@...>
> To: <mkars80@...>
> Sent: Wednesday, April 29, 2009 8:37 PM
> Subject: Re: [mkars80] resizing enclosure drilling template?
>
>
>> Hi Ray and Slim,
>> Thanks for the comments.
>> I figured out how to set to A4 page size, but couldn't find anything
>> about
>> scaling options. As a result, nothing is changed from the original
>> too-small
>> printed size.
>> 73,
>> Steve
>> ----- Original Message -----
>> From: "Ray Stringfellow" <g4tzr@...>
>> To: <mkars80@...>
>> Sent: Wednesday, April 29, 2009 12:12 PM
>> Subject: RE: [mkars80] resizing enclosure drilling template?
>>
>>
>>> Steve,
>>>
>>> The page is correct size when printed on A4 paper and page
>>> scaling
>>> is set to none.
>>>
>>> Ray
>>>
>>>

>>>
>>> -----Original Message-----
>>> From: mkars80@... [mailto:mkars80@...] On
>>> Behalf
>>> Of Steve Ratzlaff
>>> Sent: 29 April 2009 19:31
>>> To: mkars80@...
>>> Subject: [mkars80] resizing enclosure drilling template?
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>> Is there a way to re-size the enclosure drilling template and then print
>>> it
>>> out? When printed from the .pdf drilling template file, it's far too
>>> small.
>>> The size can be zoomed in and out, but it can't be printed at that new
>>> size;
>>>
>>> it always goes back to the original size when a print is tried.
>>>
>>> 73,
>>> Steve AA7U
>>>
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.12.8/2086 - Release Date: 04/29/09
> 06:37:00
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>

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Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.8/2086 - Release Date: 04/29/09
06:37:00

897. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2009-04-29 19:57:15 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 897

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /print_example.JPG
Uploaded by : hamlab3 <g6alu@...>
Description : Example of Winows print requestor to print original size

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/print_example.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

hamlab3 <g6alu@...>

898. Re: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-29 22:50:00 UTC
From: Steve Ratzlaff
Topic: 888 Message: 898

Hi Steve,
Sorry to be a bother, certainly wasn't intended. I had already tried printing with that "none" option chosen (and also tried the several other options, just in case one might work), and using the A4 paper size; nothing changed from the original attempt--still too small when printed. (I was thinking for the scaling options, that there would be ones to choose the actual layout size; mine is always fixed on either 91% or 96%, and neither actually change how the printout appears; it's always the same too-small size.)

But I've now finished the enclosure and have the board fitted more or less properly, using the old fashioned method of layout with ruler and pen, setting the board on the lid of the case and measuring, marking the enclosure for the display cutout and the other holes. Except for the rear BNC hole which is way too large and elongated, everything turned out "acceptable". I found it's important for the 3 holes for the front controls to be approx. 1/2" size (or larger), otherwise the board doesn't want to go in place. But the knobs cover the holes so it doesn't matter that the holes are big.
At any rate, the project is more or less finished now, with the board in place, bottom cover on, knobs fitted, power applied for a last check. (Getting that LED to be near the hole took quite a bit of work, my cut and try measurements weren't very close for that hole....)
I was hoping I could make the resized black border template print out properly to put around the LCD cutout, but since I can't get the drilling template to resize, the other template won't either, and I'll just live with that, and finish up by putting my own lables on the controls. Not a problem!
Thanks again for the great project.
73,
Steve AA7U

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Wednesday, April 29, 2009 12:54 PM
Subject: Re: [mkars80] resizing enclosure drilling template?

> Didn't work! I wil place it in the files section and announce it.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Wednesday, April 29, 2009 8:52 PM
> Subject: Re: [mkars80] resizing enclosure drilling template?

>
>
>>I hope the attached picture explains?
>>
>> Steve G6ALU
>>

899. Dayton

Yahoo group: mkars80
Date: 2009-04-29 23:55:56 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 480 Message: 899

We seem to have at least 13 MKARS80 radios in the USA

If anybody thinks that I can assist them get their radio working, I will be at both FDIM (with a working radio) and
Hemvention and happy to assist.

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC, GCARES, XWARN

900. Re: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-30 06:01:14 UTC
From: Steve Drury
Topic: 888 Message: 900

I'm still confused as to why your template wouldn't print the correct size, if I presented the information in a different format (*.tif, *.gif etc) I suspect you would still have had the problem.

The template shows the correct size and shape holes to drill - I've done several now and they line up OK.

I wonder if there is someone local to yourself who can print them out?

Regards,
Steve G6ALU

----- Original Message -----
From: "Steve Ratzlaff" <steveratz@...>
To: <mkars80@...>
Sent: Wednesday, April 29, 2009 11:50 PM
Subject: Re: [mkars80] resizing enclosure drilling template?

> Hi Steve,
> Sorry to be a bother, certainly wasn't intended. I had already tried
> printing with that "none" option chosen (and also tried the several other
> options, just in case one might work), and using the A4 paper size;
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> changed from the original attempt--still too small when printed. (I was
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> actual layout size; mine is always fixed on either 91% or 96%, and neither
> actually change how the printout appears; it's always the same too-small
> size.)
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> But I've now finished the enclosure and have the board fitted more or less
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> setting the board on the lid of the case and measuring, marking the
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> 73,
> Steve AA7U
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> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Wednesday, April 29, 2009 12:54 PM
> Subject: Re: [mkars80] resizing enclosure drilling template?
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>> ----- Original Message -----
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>> To: <mkars80@...>
>> Sent: Wednesday, April 29, 2009 8:52 PM
>> Subject: Re: [mkars80] resizing enclosure drilling template?
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> Yahoo! Groups Links
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Version: 8.0.238 / Virus Database: 270.12.8/2086 - Release Date: 04/29/09
06:37:00

901. Re: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-30 06:42:22 UTC
From: LEE BAHR
Topic: 888 Message: 901

I just tried it and have the same problem. The 142.3 mm width dimension prints out 132 mm on my sheet of paper. Too small. I am not a computer wizzard and have no idea why it doesnt print out 1:1. If the dimensions were given, I would just cover my box with masking tape, mark the appropriate drill points, drill and remove tape. This way, one would not have to actually paste a template onto ones box. There aren't that many drill points to make this solution not of value. Just my opinion.

Lee, w0vt

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Thursday, April 30, 2009 1:01 AM
Subject: Re: [mkars80] resizing enclosure drilling template?

I'm still confused as to why your template wouldn't print the correct size,
if I presented the information in a different format (*.tif, *.gif etc) I
suspect you would still have had the problem.

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several now and they line up OK.

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Regards,
Steve G6ALU

----- Original Message -----
From: "Steve Ratzlaff" <steveratz@...>
To: <mkars80@...>
Sent: Wednesday, April 29, 2009 11:50 PM
Subject: Re: [mkars80] resizing enclosure drilling template?

> Hi Steve,
> Sorry to be a bother, certainly wasn't intended. I had already tried
> printing with that "none" option chosen (and also tried the several other
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> Steve AA7U
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> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Wednesday, April 29, 2009 12:54 PM
> Subject: Re: [mkars80] resizing enclosure drilling template?
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>> Didn't work! I wil place it in the files section and announce it.
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>> ----- Original Message -----
>> From: "Steve Drury" <g6alu@...>
>> To: <mkars80@...>
>> Sent: Wednesday, April 29, 2009 8:52 PM
>> Subject: Re: [mkars80] resizing enclosure drilling template?
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[Non-text portions of this message have been removed]

902. Re: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-30 07:17:50 UTC
From: LEE BAHR
Topic: 888 Message: 902

Well, I just played around with this and I found a "fix" for my computer set up. I am running Windows Home Vista Premium and am using a HP All-In-One Ink Jet Printer.

I first downloaded the template, then I right clicked PRINT while my arrow was on the template, I then clicked on PROPERTIES, then I clicked on the EFFECTS page, then highlight the PERCENTAGE OF NORMAL SIZE BOX (you put a dot in the circle), I then changed the setting from 100% to 108%, then I clicked on "OK", then I clicked on "OK" to print. Out comes a size very close to ideal. For the 142.3 mm width dimension my printer now prints it out to actually be 142 mm . The key was to increase the size to 108%. As I said in my prior post, I am not a computer wizzard but this worked on my computer set up.

Lee, w0vt

----- Original Message -----
From: LEE BAHR
To: mkars80@...
Sent: Thursday, April 30, 2009 1:42 AM
Subject: Re: [mkars80] resizing enclosure drilling template?

I just tried it and have the same problem. The 142.3 mm width dimension prints out 132 mm on my sheet of paper. Too small. I am not a computer wizzard and have no idea why it doesnt print out 1:1. If the dimensions were given, I would just cover my box with masking tape, mark the appropriate drill points, drill and remove tape. This way, one would not have to actually paste a template onto ones box. There aren't that many drill points to make this solution not of value. Just my opinion.

Lee, w0vt

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Thursday, April 30, 2009 1:01 AM
Subject: Re: [mkars80] resizing enclosure drilling template?

I'm still confused as to why your template wouldn't print the correct size,
if I presented the information in a different format (*.tif, *.gif etc) I
suspect you would still have had the problem.

The template shows the correct size and shape holes to drill - I've done
several now and they line up OK.

I wonder if there is someone local to yourself who can print them out?

Regards,
Steve G6ALU

----- Original Message -----
From: "Steve Ratzlaff" <steveratz@...>

To: <mkars80@...>
Sent: Wednesday, April 29, 2009 11:50 PM
Subject: Re: [mkars80] resizing enclosure drilling template?

> Hi Steve,
> Sorry to be a bother, certainly wasn't intended. I had already tried
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> problem!
> Thanks again for the great project.
> 73,
> Steve AA7U
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Wednesday, April 29, 2009 12:54 PM
> Subject: Re: [mkars80] resizing enclosure drilling template?
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>> Didn't work! I wil place it in the files section and announce it.
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>> Steve G6ALU
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>> ----- Original Message -----
>> From: "Steve Drury" <g6alu@...>
>> To: <mkars80@...>
>> Sent: Wednesday, April 29, 2009 8:52 PM
>> Subject: Re: [mkars80] resizing enclosure drilling template?
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>>> Steve G6ALU
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

903. Re: resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-30 07:29:47 UTC
From: Master Ice
Topic: 888 Message: 903

I wonder if it may be worth checking the printer's settings actually in the Windows printer folder.
There may be some default setting in the printer driver which is over riding the Acrobat settings.

Slim G4IPZ

--- In mkars80@..., "LEE BAHR" <pulsarxp@...> wrote:
>
> I just tried it and have the same problem. The 142.3 mm width dimension prints out 132 mm on my sheet of paper. Too small. I am not a computer wizzard and have no idea why it doesnt print out 1:1. If the dimensions were given, I would just cover my box with masking tape, mark the appropriate drill points, drill and remove tape. This way, one would not have to actually paste a template onto ones box. There aren't that many drill points to make this solution not of value. Just my opinion.
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> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Thursday, April 30, 2009 1:01 AM
> Subject: Re: [mkars80] resizing enclosure drilling template?
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> The template shows the correct size and shape holes to drill - I've done
> several now and they line up OK.
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> I wonder if there is someone local to yourself who can print them out?
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> Regards,

> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Ratzlaff" steveratz@...
> To: mkars80@...
> Sent: Wednesday, April 29, 2009 11:50 PM
> Subject: Re: [mkars80] resizing enclosure drilling template?
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> > Hi Steve,
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> > From: "Steve Drury" g6alu@...
> > To: mkars80@...
> > Sent: Wednesday, April 29, 2009 12:54 PM
> > Subject: Re: [mkars80] resizing enclosure drilling template?
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> >> Steve G6ALU
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> >> ----- Original Message -----
> >> From: "Steve Drury" g6alu@...
> >> To: mkars80@...
> >> Sent: Wednesday, April 29, 2009 8:52 PM
> >> Subject: Re: [mkars80] resizing enclosure drilling template?
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>
> [Non-text portions of this message have been removed]
>

904. RE: [mkars80] Dayton

Yahoo group: mkars80
Date: 2009-04-30 08:27:06 UTC
From: David White
Topic: 480 Message: 904

perhaps you can be steve's USA agent nigel de G3ZPA

NNNN

To: mkars80@...
From: nigel@...
Date: Wed, 29 Apr 2009 23:55:56 +0000
Subject: [mkars80] Dayton

We seem to have at least 13 MKARS80 radios in the USA

If anybody thinks that I can assist them get their radio working, I will be at both FDIM (with a working radio) and
Hemvention and happy to assist.

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC, GCARES, XWARN

View your Twitter and Flickr updates from one place ? Learn more!
http://clk.atdmt.com/UKM/go/137984870/direct/01/

[Non-text portions of this message have been removed]

905. RE: [mkars80] resizing enclosure drilling template?

Yahoo group: mkars80
Date: 2009-04-30 08:36:49 UTC
From: David White
Topic: 888 Message: 905

hmm. that was a good tip Lee, i have been having some sizing problems too. not for the MKARS80 but for other printouts. many thanks de G3ZPA

NNNN

To: mkars80@...
From: pulsarxp@...
Date: Thu, 30 Apr 2009 02:17:50 -0500
Subject: Re: [mkars80] resizing enclosure drilling template?

Well, I just played around with this and I found a "fix" for my computer set up. I am running Windows Home Vista Premium and am using a HP All-In-One Ink Jet Printer.

I first downloaded the template, then I right clicked PRINT while my arrow was on the template, I then clicked on PROPERTIES, then I clicked on the EFFECTS page, then highlight the PERCENTAGE OF NORMAL SIZE BOX (you put a dot in the circle), I then changed the setting from 100% to 108%, then I clicked on "OK", then I clicked on "OK" to print. Out comes a size very close to ideal. For the 142.3 mm width dimension my printer now prints it out to actually be 142 mm . The key was to increase the size to 108%. As I said in my prior post, I am not a computer wizzard but this worked on my computer set up.

Lee, w0vt

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From: LEE BAHR
To: mkars80@...
Sent: Thursday, April 30, 2009 1:42 AM
Subject: Re: [mkars80] resizing enclosure drilling template?

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From: Steve Drury
To: mkars80@....uk
Sent: Thursday, April 30, 2009 1:01 AM
Subject: Re: [mkars80] resizing enclosure drilling template?

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Regards,
Steve G6ALU

----- Original Message -----
From: "Steve Ratzlaff" <steveratz@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Wednesday, April 29, 2009 11:50 PM
Subject: Re: [mkars80] resizing enclosure drilling template?

> Hi Steve,
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> Thanks again for the great project.
> 73,
> Steve AA7U
>
> ----- Original Message -----

> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Wednesday, April 29, 2009 12:54 PM
> Subject: Re: [mkars80] resizing enclosure drilling template?
>
>
>> Didn't work! I wil place it in the files section and announce it.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Steve Drury" <g6alu@tiscali.co.uk>
>> To: <mkars80@...>
>> Sent: Wednesday, April 29, 2009 8:52 PM
>> Subject: Re: [mkars80] resizing enclosure drilling template?
>>
>>
>>>I hope the attached picture explains?
>>>
>>> Steve G6ALU
>>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.0.238 / Virus Database: 270.12.8/2086 - Release Date: 04/29/09
06:37:00

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Share your photos with Windows Live Photos ? Free.
http://clk.atdmt.com/UKM/go/134665338/direct/01/

[Non-text portions of this message have been removed]

906. re: [mkars80] Dayton

Yahoo group: mkars80
Date: 2009-04-30 14:57:52 UTC
From: Dean Davis
Topic: 480 Message: 906

If I could get off of my butt for an evening I could get my case drilled
and bring it to Dayton as well.

Normal
0

false
false
false

MicrosoftInternetExplorer4

Normal
0

false
false
false

MicrosoftInternetExplorer4

D2
Dean Davis (N7XG)

Alpine Software

www.alpineso ft.com

From: "Nigel Gunn G8IFF/W8IFF" <nigel@...>
Sent: Wednesday, April 29, 2009 5:24 PM
To: mkars80@...
Subject: [mkars80] Dayton

We seem to have at least 13 MKARS80 radios in the USA

If anybody thinks that I can assist them get their radio working, I will be
at both FDIM (with a working radio) and

Hemvention and happy to assist.

--

Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1
937 825 5032

Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net

Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,

Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK, MKARS, ALC, GCARES, XWARN

[Non-text portions of this message have been removed]

907. Electret microphone

Yahoo group: mkars80
Date: 2009-04-30 17:55:30 UTC
From: dawsonr45
Topic: 907 Message: 907

Ive gone throuigh Maplin's catalogue but I cannot find a suitable Electret mic. that has a PTT switch. Can someone steer me towards a model number.
Richard Dawson

908. Re: Electret microphone

Yahoo group: mkars80
Date: 2009-04-30 18:52:29 UTC
From: david273129
Topic: 907 Message: 908

--- In mkars80@..., "dawsonr45" <dawsonr45@...> wrote:
>
> Ive gone throuigh Maplin's catalogue but I cannot find a suitable Electret mic. that has a PTT switch. Can someone steer me towards a model number.
> Richard Dawson
>
Hi

You probably wont find one with a ptt switch fitted but there is usually space in the base of most models to fit a switch yourself.

Regards

Dave G0BVV

909. Re: Electret microphone

Yahoo group: mkars80
Date: 2009-05-01 13:46:35 UTC
From: panzerbeeb
Topic: 907 Message: 909

Hi,

I am using a Yoga speaker/mic from Maplins stock code QT21X. It comes with a 2.5/3.5 mm dual plug, and is wired for voltage PTT switching, but is easily rewired for use with the MKARS80 after fitting new plugs. I used one of the speaker wires for the separate PTT line.The screen acts as return for both mic and speaker.

Mike G8EEY.

--- In mkars80@..., "david273129" <david.clench@...> wrote:
>
> --- In mkars80@....uk, "dawsonr45" <dawsonr45@> wrote:
> >
> > Ive gone throuigh Maplin's catalogue but I cannot find a suitable Electret mic. that has a PTT switch. Can someone steer me towards a model number.
> > Richard Dawson
> >
> Hi
>
> You probably wont find one with a ptt switch fitted but there is usually space in the base of most models to fit a switch yourself.
>
> Regards
>
> Dave G0BVV
>

910. Full 500 kHz tuning range mod added

Yahoo group: mkars80
Date: 2009-05-02 19:14:31 UTC
From: Steve Ratzlaff
Topic: 910 Message: 910

I've been having fun playing with my newly-built MKARS80 rig. At first I had poor receive sensitivity, but after advice from Steve, found my error--Q17 installed backwards! Just your basic assembly error, which I had not properly examined the board for, after assembly, as noted to do in the instructions. Now it receives with good sensitivity, measured at -113 dBm MDS (0.5 uV). Since I only use headphones, I made a simple mono plug to stereo jack adaptor to plug into the speaker jack.
I've been playing with the VFO and have found that adding turns to L5 gives a wider tuning range. For mine, 43 turns (5.7 uH measured with the aade.com LC meter) gives a full 500 kHz tuning range (actually about 550 kHz). C38 is adjusted to set where either the start or finish occurs (I set mine for the start, around 3498 kHz). Now I have the full 500 kHz tuning range--ready to add the optional CW adaptor now.
I haven't made a mic yet, but have checked the power output, feeding a tone in from an audio signal generator. At 3.8 MHz I got an easy 5 watts out, and power stopped increasing as I increased the audio drive at 6.5 watts output. This is a very fine rig!
(I used Windows Paint program to make a black border that I printed out and pasted around the display--that worked just fine, since I was unable to print the display Template at proper size.)
73,
Steve AA7U

911. Construction and user manual in Norwegian

Yahoo group: mkars80
Date: 2009-05-03 08:54:10 UTC
From: kvarsla
Topic: 911 Message: 911

I have now translated the Construction and user manual in Nowegian, and it will be available for those who don't speak/read English well enough to dear to start with this kit.
73 de Kjell / LA9GJ

912. Construction & User Manual in Norwegian

Yahoo group: mkars80
Date: 2009-05-04 06:16:34 UTC
From: kvarsla
Topic: 912 Message: 912

I just uploaded a Norwegian Manual as pdf-file, maybe someone can use this if not reading English too well.
73 de Kjell / LA9GJ

913. 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-14 21:22:56 UTC
From: mark2w0jmk
Topic: 913 Message: 913

hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock onto the frequency 3.7600 and above and 3.7400 and below is ok any ideas Steve it has been like this since i built it.
one very confused mark 2w0jmk

914. TX is 100 Hz high. What might I look at?

Yahoo group: mkars80
Date: 2009-05-16 00:14:23 UTC
From: ve3xj
Topic: 914 Message: 914

Greetings:

I often get comments that my transmitted signal is about 100 Hz higher than what I am receiving. What can I do in order to resolve this problem?

Jim, VE3XJ

915. Re: [mkars80] TX is 100 Hz high. What might I look at?

Yahoo group: mkars80
Date: 2009-05-16 06:42:58 UTC
From: Steve Drury
Topic: 914 Message: 915

Try adjusting C83 the BFO frequency - as the BFO also supplies the micro clock and hence the frequency counter reference you will find the displayed frequency changes with BFO offset.

Steev G6ALU

----- Original Message -----
From: "ve3xj" <ve3xj@...>
To: <mkars80@...>
Sent: Saturday, May 16, 2009 1:14 AM
Subject: [mkars80] TX is 100 Hz high. What might I look at?

> Greetings:
>
> I often get comments that my transmitted signal is about 100 Hz higher
> than what I am receiving. What can I do in order to resolve this problem?
>
> Jim, VE3XJ
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.329 / Virus Database: 270.12.31/2116 - Release Date: 05/15/09 06:16:00

916. Re: [mkars80] 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-16 06:40:17 UTC
From: Steve Drury
Topic: 913 Message: 916

Mark,
I've been thinking about this one - please confirm you have the latest firmware V2.4 (shown on the LCD at start-up).

Does the display continuously change in frequency so won't let the Huff and Puff lock? If so it may be worth changing C50 the 10uF electrolytic, let me know if you need one.

I spent some time on a radio recently where the leakage in C50 was too high, this caused the symptoms I describe.

Steve G6ALU

----- Original Message -----
From: "mark2w0jmk" <mw3hqt@...>
To: <mkars80@...>
Sent: Thursday, May 14, 2009 10:22 PM
Subject: [mkars80] 3.7500 huf and puff wont lock

> hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock onto the
> frequency 3.7600 and above and 3.7400 and below is ok any ideas Steve it
> has been like this since i built it.
> one very confused mark 2w0jmk
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> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.329 / Virus Database: 270.12.29/2114 - Release Date: 05/14/09 06:28:00

917. Re: 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-16 09:46:01 UTC
From: mark2w0jmk
Topic: 913 Message: 917

hi steve yes the firmware is v2.4. i have made a mistake on the frequency it happens on 3.775 MHz not 3.750 MHz but i think that wont make a difference.

the display locks say on 3.775.000 and then the u will appear and the frequency will go up a few hertz + will appear and it will stop but the u will appear again and on and on and on i don't get the three lines at all just moves from u to + and this will happen when the radio has been on for some time so i dont think it is the initial worming of the radio.

the radio has been on now for 0ne and a half hours and it is still on the move from 3.774.800 to at the moment 3.775.270 from mark

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Mark,
> I've been thinking about this one - please confirm you have the latest
> firmware V2.4 (shown on the LCD at start-up).
>
> Does the display continuously change in frequency so won't let the Huff and
> Puff lock? If so it may be worth changing C50 the 10uF electrolytic, let me
> know if you need one.
>
> I spent some time on a radio recently where the leakage in C50 was too high,
> this caused the symptoms I describe.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "mark2w0jmk" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Thursday, May 14, 2009 10:22 PM
> Subject: [mkars80] 3.7500 huf and puff wont lock
>
>
> > hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock onto the
> > frequency 3.7600 and above and 3.7400 and below is ok any ideas Steve it
> > has been like this since i built it.
> > one very confused mark 2w0jmk
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.329 / Virus Database: 270.12.29/2114 - Release Date: 05/14/09
> 06:28:00
>

918. Re: TX is 100 Hz high. What might I look at?

Yahoo group: mkars80
Date: 2009-05-16 11:33:58 UTC
From: ve3xj
Topic: 914 Message: 918

Hi Steve:

I also consulted with VE33EUR because of his expertise on QRP building, and he said essentially the same thing. (Pat is to be pitied, he is primarily a CW op. I guess you can lead a horse to technology, but you can't make him use it! hi hi) I suspect that the solution to the problem is a slight tweaking because in my manual, it says to adjust it to 9.9999 MHz, whereas I see in version 3 of the manual, it should be adjusted to 10.000 MHz. So I will do that sometime today. (I want to get a linear amp that I picked up for my 817 up and running today. Not much to that - remove the existing connector and install an Anderson Powerpole.)

Thanks so much

Jim, VE3XJ

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Try adjusting C83 the BFO frequency - as the BFO also supplies the micro
> clock and hence the frequency counter reference you will find the displayed
> frequency changes with BFO offset.
>
> Steev G6ALU
>
> ----- Original Message -----
> From: "ve3xj" <ve3xj@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Saturday, May 16, 2009 1:14 AM
> Subject: [mkars80] TX is 100 Hz high. What might I look at?
>
>
> > Greetings:
> >
> > I often get comments that my transmitted signal is about 100 Hz higher
> > than what I am receiving. What can I do in order to resolve this problem?
> >
> > Jim, VE3XJ
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.329 / Virus Database: 270.12.31/2116 - Release Date: 05/15/09
> 06:16:00
>

919. Three cheers for Steve

Yahoo group: mkars80
Date: 2009-05-18 14:39:02 UTC
From: g1zez@ymail.com
Topic: 919 Message: 919

Hi,

I am a new poster to the group but wanted to add my thanks to Steve for putting together such a great kit.

I ordered mine a couple of weeks ago and it turned up a couple of days later with every part present and correct down to the last washer.

I found the instructions clear and easy to follow, and after 3 gentle construction sessions the circuitry side was complete. The receiver worked first time but the transmitter wouldn't key - one missed solder joint on the relay coil. As soon as that was fixed it sprang into life.

Alignment also seemed to be straightforward and more forgiving than some simple radio designs I have played with - with no coil cores to adjust and so few trimmers I was expecting to have to squeeze turns on toroids etc. to get flat-ish power output over the whole band but it tuned up very easily. Receive performance seemed very good as soon as the mixer balance and BFO frequency were adjusted close to where they should be. The transmitter gave me a perfect modulation envelope when fed with a two tone test oscillator and about 4.5W out into a dummy load. The stabilised VFO and frequency display were very welcome additions to the design really add to the ease and enjoyment of using it.

I finally got it boxed up over the this last weekend and will be lashing together a mic for use with it tonight. I am currently using an ML-40 mag loop aerial from g4tph.com which tunes up nicely on 80M and requires no ATU so this is going to be a perfect portable set once I box up a sealed lead-acid battery in a matching case.

This kit has been a joy to build and I can tell it is going to be equally fun to operate. I cannot believe that such a well thought out kit with such high quality components (I am thinking particularly of the PCB) can be produced for £50.

Many thanks to Steve and good luck to the other constructors!

Brian, G1ZEZ

920. CW Adapter

Yahoo group: mkars80
Date: 2009-05-18 21:35:03 UTC
From: Dean Davis
Topic: 885 Message: 920

Hi,

Any update on the CW adapter?

Dean, N7XG

921. Re: [mkars80] CW Adapter

Yahoo group: mkars80
Date: 2009-05-18 22:04:13 UTC
From: Steve Drury
Topic: 885 Message: 921

Hello Dean,

I'm now shiping the CW adapter in small numbers - I have a few in stock. I will send you ordering info by private mail.

Steve G6ALU

----- Original Message -----
From: "Dean Davis" <dean@...>
To: <mkars80@...>
Sent: Monday, May 18, 2009 10:35 PM
Subject: [mkars80] CW Adapter

> Hi,
>
> Any update on the CW adapter?
>
> Dean, N7XG
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

922. Re: [mkars80] Re: 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-18 22:08:53 UTC
From: Steve Drury
Topic: 913 Message: 922

Mark,

This one has me baffled!

The VFO is purely analogue so I am surprised the Huff and Puff refuses to lock on particular frequencies. If you would like to return it to me I would willingly sort it for you - I just ask you pay return postage.

Regards,
Steve G6ALU

----- Original Message -----
From: "mark2w0jmk" <mw3hqt@...>
To: <mkars80@...>
Sent: Saturday, May 16, 2009 10:46 AM
Subject: [mkars80] Re: 3.7500 huf and puff wont lock

> hi steve yes the firmware is v2.4. i have made a mistake on the frequency
> it happens on 3.775 MHz not 3.750 MHz but i think that wont make a
> difference.
>
> the display locks say on 3.775.000 and then the u will appear and the
> frequency will go up a few hertz + will appear and it will stop but the u
> will appear again and on and on and on i don't get the three lines at all
> just moves from u to + and this will happen when the radio has been on for
> some time so i dont think it is the initial worming of the radio.
>
> the radio has been on now for 0ne and a half hours and it is still on the
> move from 3.774.800 to at the moment 3.775.270 from mark
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Mark,
>> I've been thinking about this one - please confirm you have the latest
>> firmware V2.4 (shown on the LCD at start-up).
>>
>> Does the display continuously change in frequency so won't let the Huff
>> and
>> Puff lock? If so it may be worth changing C50 the 10uF electrolytic, let
>> me
>> know if you need one.
>>
>> I spent some time on a radio recently where the leakage in C50 was too
>> high,

>> this caused the symptoms I describe.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "mark2w0jmk" <mw3hqt@...>
>> To: <mkars80@...>
>> Sent: Thursday, May 14, 2009 10:22 PM
>> Subject: [mkars80] 3.7500 huf and puff wont lock
>>
>>
>> > hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock onto the
>> > frequency 3.7600 and above and 3.7400 and below is ok any ideas Steve
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>> > has been like this since i built it.
>> > one very confused mark 2w0jmk
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.329 / Virus Database: 270.12.29/2114 - Release Date:
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.329 / Virus Database: 270.12.32/2117 - Release Date: 05/15/09
17:55:00

923. Re: [mkars80] Three cheers for Steve

Yahoo group: mkars80
Date: 2009-05-18 22:10:28 UTC
From: Steve Drury
Topic: 919 Message: 923

Thank you for the kind words Brian, I hope you have as much enjoyment using it as you did building it.

Regards,
Steve G6ALU

----- Original Message -----
From: "g1zez@..." <brian@...>
To: <mkars80@...>
Sent: Monday, May 18, 2009 3:39 PM
Subject: [mkars80] Three cheers for Steve

Hi,

I am a new poster to the group but wanted to add my thanks to Steve for putting together such a great kit.

I ordered mine a couple of weeks ago and it turned up a couple of days later with every part present and correct down to the last washer.

I found the instructions clear and easy to follow, and after 3 gentle construction sessions the circuitry side was complete. The receiver worked first time but the transmitter wouldn't key - one missed solder joint on the relay coil. As soon as that was fixed it sprang into life.

Alignment also seemed to be straightforward and more forgiving than some simple radio designs I have played with - with no coil cores to adjust and so few trimmers I was expecting to have to squeeze turns on toroids etc. to get flat-ish power output over the whole band but it tuned up very easily. Receive performance seemed very good as soon as the mixer balance and BFO frequency were adjusted close to where they should be. The transmitter gave me a perfect modulation envelope when fed with a two tone test oscillator and about 4.5W out into a dummy load. The stabilised VFO and frequency display were very welcome additions to the design really add to the ease and enjoyment of using it.

I finally got it boxed up over the this last weekend and will be lashing together a mic for use with it tonight. I am currently using an ML-40 mag loop aerial from g4tph.com which tunes up nicely on 80M and requires no ATU so this is going to be a perfect portable set once I box up a sealed lead-acid battery in a matching case.

This kit has been a joy to build and I can tell it is going to be equally fun to operate. I cannot believe that such a well thought out kit with such high quality components (I am thinking particularly of the PCB) can be produced for ?50.

Many thanks to Steve and good luck to the other constructors!

Brian, G1ZEZ

Yahoo! Groups Links

924. Re: 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-18 22:16:22 UTC
From: mark2w0jmk
Topic: 913 Message: 924

hi steve it has me baffled to i changed c50 the only one i had here was a 10uf 16v but it is still the same so i might take you up on your offer.
it is very frustrating when i cant sort it out myself

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Mark,
>
> This one has me baffled!
>
> The VFO is purely analogue so I am surprised the Huff and Puff refuses to
> lock on particular frequencies. If you would like to return it to me I would
> willingly sort it for you - I just ask you pay return postage.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "mark2w0jmk" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Saturday, May 16, 2009 10:46 AM
> Subject: [mkars80] Re: 3.7500 huf and puff wont lock
>
>
> > hi steve yes the firmware is v2.4. i have made a mistake on the frequency
> > it happens on 3.775 MHz not 3.750 MHz but i think that wont make a
> > difference.
> >
> > the display locks say on 3.775.000 and then the u will appear and the
> > frequency will go up a few hertz + will appear and it will stop but the u
> > will appear again and on and on and on i don't get the three lines at all
> > just moves from u to + and this will happen when the radio has been on for
> > some time so i dont think it is the initial worming of the radio.
> >
> > the radio has been on now for 0ne and a half hours and it is still on the
> > move from 3.774.800 to at the moment 3.775.270 from mark
> >
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Mark,
> >> I've been thinking about this one - please confirm you have the latest
> >> firmware V2.4 (shown on the LCD at start-up).
> >>

> >> Does the display continuously change in frequency so won't let the Huff
> >> and
> >> Puff lock? If so it may be worth changing C50 the 10uF electrolytic, let
> >> me
> >> know if you need one.
> >>
> >> I spent some time on a radio recently where the leakage in C50 was too
> >> high,
> >> this caused the symptoms I describe.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "mark2w0jmk" <mw3hqt@>
> >> To: <mkars80@...>
> >> Sent: Thursday, May 14, 2009 10:22 PM
> >> Subject: [mkars80] 3.7500 huf and puff wont lock
> >>
> >>
> >> > hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock onto the
> >> > frequency 3.7600 and above and 3.7400 and below is ok any ideas Steve
> >> > it
> >> > has been like this since i built it.
> >> > one very confused mark 2w0jmk
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> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.329 / Virus Database: 270.12.29/2114 - Release Date:
> >> 05/14/09
> >> 06:28:00
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.329 / Virus Database: 270.12.32/2117 - Release Date: 05/15/09
> 17:55:00
>

925. Re: 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-20 19:31:49 UTC
From: jvwild48
Topic: 913 Message: 925

Hi Mark and Steve,
My rig is doing exactly the same thing !
If you go on 3.775mz or a few hundred hertz either side, the huff puff is constantly locking and unlocking, if you go to 3.777mhz or 3.773mhz etc or any where else I have tried so far, it locks fine !!
Let me know if you find anything.
73
John M0JVW

--- In mkars80@..., "mark2w0jmk" <mw3hqt@...> wrote:
>
> hi steve it has me baffled to i changed c50 the only one i had here was a 10uf 16v but it is still the same so i might take you up on your offer.
> it is very frustrating when i cant sort it out myself
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > Mark,
> > >
> > > This one has me baffled!
> > >
> > > The VFO is purely analogue so I am surprised the Huff and Puff refuses to
> > > lock on particular frequencies. If you would like to return it to me I would
> > > willingly sort it for you - I just ask you pay return postage.
> > >
> > > Regards,
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "mark2w0jmk" <mw3hqt@>
> > > To: <mkars80@...>
> > > Sent: Saturday, May 16, 2009 10:46 AM
> > > Subject: [mkars80] Re: 3.7500 huf and puff wont lock
> > >
> > >
> > > > hi steve yes the firmware is v2.4. i have made a mistake on the frequency
> > > > it happens on 3.775 MHz not 3.750 MHz but i think that wont make a
> > > > difference.
> > > >
> > > > the display locks say on 3.775.000 and then the u will appear and the
> > > > frequency will go up a few hertz + will appear and it will stop but the u
> > > > will appear again and on and on and on i don't get the three lines at all
> > > > just moves from u to + and this will happen when the radio has been on for
> > > > some time so i dont think it is the initial worming of the radio.

> > >
> > > the radio has been on now for 0ne and a half hours and it is still on the
> > > move from 3.774.800 to at the moment 3.775.270 from mark
> > >
> > >
> > >
> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >>
> > >> Mark,
> > >> I've been thinking about this one - please confirm you have the latest
> > >> firmware V2.4 (shown on the LCD at start-up).
> > >>
> > >> Does the display continuously change in frequency so won't let the Huff
> > >> and
> > >> Puff lock? If so it may be worth changing C50 the 10uF electrolytic, let
> > >> me
> > >> know if you need one.
> > >>
> > >> I spent some time on a radio recently where the leakage in C50 was too
> > >> high,
> > >> this caused the symptoms I describe.
> > >>
> > >> Steve G6ALU
> > >>
> > >> ----- Original Message -----
> > >> From: "mark2w0jmk" <mw3hqt@>
> > >> To: <mkars80@...>
> > >> Sent: Thursday, May 14, 2009 10:22 PM
> > >> Subject: [mkars80] 3.7500 huf and puff wont lock
> > >>
> > >>
> > >> > hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock onto the
> > >> > frequency 3.7600 and above and 3.7400 and below is ok any ideas Steve
> > >> > it
> > >> > has been like this since i built it.
> > >> > one very confused mark 2w0jmk
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> > >> > Yahoo! Groups Links
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> > >>
> > >> No virus found in this incoming message.
> > >> Checked by AVG - www.avg.com
> > >> Version: 8.5.329 / Virus Database: 270.12.29/2114 - Release Date:
> > >> 05/14/09
> > >> 06:28:00
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> > > ---
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> > > Yahoo! Groups Links
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> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.329 / Virus Database: 270.12.32/2117 - Release Date: 05/15/09
> > 17:55:00
> >
>

926. Re: [mkars80] Re: 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-20 20:25:10 UTC
From: Steve Drury
Topic: 913 Message: 926

It doesn't matter how much testing you do there are always unwanted features
in software, this is one of them!

Please don't look for faults my radio does it as well, I will (try) and find
the bug ASAP and make an update available for any one who wants it.

Regards,
Steve G6ALU

----- Original Message -----
From: "jvwild48" <jvwild@...>
To: <mkars80@...>
Sent: Wednesday, May 20, 2009 8:31 PM
Subject: [mkars80] Re: 3.7500 huf and puff wont lock

> Hi Mark and Steve,
> My rig is doing exactly the same thing !
> If you go on 3.775mz or a few hundred hertz either side, the huff puff is
> constantly locking and unlocking, if you go to 3.777mhz or 3.773mhz etc or
> any where else I have tried so far, it locks fine !!
> Let me know if you find anything.
> 73
> John M0JVW
>
> --- In mkars80@..., "mark2w0jmk" <mw3hqt@...> wrote:
>>
>> hi steve it has me baffled to i changed c50 the only one i had here was a
>> 10uf 16v but it is still the same so i might take you up on your offer.
>> it is very frustrating when i cant sort it out myself
>>
>>
>> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >
>> > Mark,
>> >
>> > This one has me baffled!
>> >
>> > The VFO is purely analogue so I am surprised the Huff and Puff refuses
>> > to
>> > lock on particular frequencies. If you would like to return it to me I
>> > would
>> > willingly sort it for you - I just ask you pay return postage.
>> >
>> > Regards,
>> > Steve G6ALU
>> >

>> > ----- Original Message -----
>> > From: "mark2w0jmk" <mw3hqt@>
>> > To: <mkars80@...>
>> > Sent: Saturday, May 16, 2009 10:46 AM
>> > Subject: [mkars80] Re: 3.7500 huf and puff wont lock
>> >
>> >
>> > > hi steve yes the firmware is v2.4. i have made a mistake on the
>> > > frequency
>> > > it happens on 3.775 MHz not 3.750 MHz but i think that wont make a
>> > > difference.
>> > >
>> > > the display locks say on 3.775.000 and then the u will appear and the
>> > > frequency will go up a few hertz + will appear and it will stop but
>> > > the u
>> > > will appear again and on and on and on i don't get the three lines at
>> > > all
>> > > just moves from u to + and this will happen when the radio has been
>> > > on for
>> > > some time so i dont think it is the initial worming of the radio.
>> > >
>> > > the radio has been on now for 0ne and a half hours and it is still on
>> > > the
>> > > move from 3.774.800 to at the moment 3.775.270 from mark
>> > >
>> > >
>> > >
>> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> > >>
>> > >> Mark,
>> > >> I've been thinking about this one - please confirm you have the
>> > >> latest
>> > >> firmware V2.4 (shown on the LCD at start-up).
>> > >>
>> > >> Does the display continuously change in frequency so won't let the
>> > >> Huff
>> > >> and
>> > >> Puff lock? If so it may be worth changing C50 the 10uF electrolytic,
>> > >> let
>> > >> me
>> > >> know if you need one.
>> > >>
>> > >> I spent some time on a radio recently where the leakage in C50 was
>> > >> too
>> > >> high,
>> > >> this caused the symptoms I describe.
>> > >>
>> > >> Steve G6ALU
>> > >>
>> > >> ----- Original Message -----

>> > >> From: "mark2w0jmk" <mw3hqt@>
>> > >> To: <mkars80@...>
>> > >> Sent: Thursday, May 14, 2009 10:22 PM
>> > >> Subject: [mkars80] 3.7500 huf and puff wont lock
>> > >>
>> > >>
>> > >> > hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock
>> > >> > onto the
>> > >> > frequency 3.7600 and above and 3.7400 and below is ok any ideas
>> > >> > Steve
>> > >> > it
>> > >> > has been like this since i built it.
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>> > >> > Yahoo! Groups Links
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>> > >> No virus found in this incoming message.
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.35/2124 - Release Date: 05/20/09
06:22:00

927. Re: 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-20 21:21:24 UTC
From: jvwild48
Topic: 913 Message: 927

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:

>Hi Steve,
No problem, as you say there will always be the odd glitch, the radio works very well, I have thoroughly enjoyed building and using it.
There is plenty of space on 80m so it is not a problem, I am certainly not looking for faults, I mentioned it only because I noticed it had been posted on the forum.
Keep up the good work.

73 John

> It doesn't matter how much testing you do there are always unwanted features
> in software, this is one of them!
>
> Please don't look for faults my radio does it as well, I will (try) and find
> the bug ASAP and make an update available for any one who wants it.
>
> Regards,
> Steve G6ALU
>
>
>
> ----- Original Message -----
> From: "jvwild48" <jvwild@...>
> To: <mkars80@....uk>
> Sent: Wednesday, May 20, 2009 8:31 PM
> Subject: [mkars80] Re: 3.7500 huf and puff wont lock
>
>
> > Hi Mark and Steve,
> > My rig is doing exactly the same thing !
> > If you go on 3.775mz or a few hundred hertz either side, the huff puff is
> > constantly locking and unlocking, if you go to 3.777mhz or 3.773mhz etc or
> > any where else I have tried so far, it locks fine !!
> > Let me know if you find anything.
> > 73
> > John M0JVW
> >
> > --- In mkars80@..., "mark2w0jmk" <mw3hqt@> wrote:
> >>
> >> hi steve it has me baffled to i changed c50 the only one i had here was a
> >> 10uf 16v but it is still the same so i might take you up on your offer.
> >> it is very frustrating when i cant sort it out myself
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> >>
> >> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:

> >> >
> >> > Mark,
> >> >
> >> > This one has me baffled!
> >> >
> >> > The VFO is purely analogue so I am surprised the Huff and Puff refuses
> >> > to
> >> > lock on particular frequencies. If you would like to return it to me I
> >> > would
> >> > willingly sort it for you - I just ask you pay return postage.
> >> >
> >> > Regards,
> >> > Steve G6ALU
> >> >
> >> > ----- Original Message -----
> >> > From: "mark2w0jmk" <mw3hqt@>
> >> > To: <mkars80@...>
> >> > Sent: Saturday, May 16, 2009 10:46 AM
> >> > Subject: [mkars80] Re: 3.7500 huf and puff wont lock
> >> >
> >> >
> >> > > hi steve yes the firmware is v2.4. i have made a mistake on the
> >> > > frequency
> >> > > it happens on 3.775 MHz not 3.750 MHz but i think that wont make a
> >> > > difference.
> >> > >
> >> > > the display locks say on 3.775.000 and then the u will appear and the
> >> > > frequency will go up a few hertz + will appear and it will stop but
> >> > > the u
> >> > > will appear again and on and on and on i don't get the three lines at
> >> > > all
> >> > > just moves from u to + and this will happen when the radio has been
> >> > > on for
> >> > > some time so i dont think it is the initial worming of the radio.
> >> > >
> >> > > the radio has been on now for 0ne and a half hours and it is still on
> >> > > the
> >> > > move from 3.774.800 to at the moment 3.775.270 from mark
> >> > >
> >> > >
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> >> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> > >>
> >> > >> Mark,
> >> > >> I've been thinking about this one - please confirm you have the
> >> > >> latest
> >> > >> firmware V2.4 (shown on the LCD at start-up).
> >> > >>
> >> > >> Does the display continuously change in frequency so won't let the
> >> > >> Huff

> >> > >> and
> >> > >> Puff lock? If so it may be worth changing C50 the 10uF electrolytic,
> >> > >> let
> >> > >> me
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> >> > >> I spent some time on a radio recently where the leakage in C50 was
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> >> > >> this caused the symptoms I describe.
> >> > >>
> >> > >> Steve G6ALU
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> >> > >> ----- Original Message -----
> >> > >> From: "mark2w0jmk" <mw3hqt@>
> >> > >> To: <mkars80@...>
> >> > >> Sent: Thursday, May 14, 2009 10:22 PM
> >> > >> Subject: [mkars80] 3.7500 huf and puff wont lock
> >> > >>
> >> > >>
> >> > >> > hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock
> >> > >> > onto the
> >> > >> > frequency 3.7600 and above and 3.7400 and below is ok any ideas
> >> > >> > Steve
> >> > >> > it
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> >> > >> > one very confused mark 2w0jmk
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> >

928. Re: 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-22 15:17:54 UTC
From: panzerbeeb
Topic: 913 Message: 928

Hi Steve,
On my unit the huff and puff changes at 3.774.100 MHz. Up to this frequency teasing the vfo up or down in frequency produces error bars to left or right of L (lock). Above this frequency teasing the frequency up gives error bars to the left of L, teasing the frequency down gives no error bars and goes instantly to unlocked, hence no correction is applied, the frequency just drifts upwards. The next change point is 3.775.360, above which life is stable again. Interestingly setting the frequency above ...360 and acheiving L (lock) is fine, but if the frequency is drifting up from the problem area under unlock conditions, it will continue past the point at which lock should be achieved. I don't know if this helps with the diagnosis at all.

Regards, Mike, G8EEY.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> It doesn't matter how much testing you do there are always unwanted features
> in software, this is one of them!
>
> Please don't look for faults my radio does it as well, I will (try) and find
> the bug ASAP and make an update available for any one who wants it.
>
> Regards,
> Steve G6ALU
>
>
>
> ----- Original Message -----
> From: "jvwild48" <jvwild@...>
> To: <mkars80@...>
> Sent: Wednesday, May 20, 2009 8:31 PM
> Subject: [mkars80] Re: 3.7500 huf and puff wont lock
>
>
> > Hi Mark and Steve,
> > My rig is doing exactly the same thing !
> > If you go on 3.775mz or a few hundred hertz either side, the huff puff is
> > constantly locking and unlocking, if you go to 3.777mhz or 3.773mhz etc or
> > any where else I have tried so far, it locks fine !!
> > Let me know if you find anything.
> > 73
> > John M0JVW
> >
> > --- In mkars80@..., "mark2w0jmk" <mw3hqt@> wrote:
> >>
> >> hi steve it has me baffled to i changed c50 the only one i had here was a

> >> 10uf 16v but it is still the same so i might take you up on your offer.
> >> it is very frustrating when i cant sort it out myself
> >>
> >>
> >> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> >
> >> > Mark,
> >> >
> >> > This one has me baffled!
> >> >
> >> > The VFO is purely analogue so I am surprised the Huff and Puff refuses
> >> > to
> >> > lock on particular frequencies. If you would like to return it to me I
> >> > would
> >> > willingly sort it for you - I just ask you pay return postage.
> >> >
> >> > Regards,
> >> > Steve G6ALU
> >> >
> >> > ----- Original Message -----
> >> > From: "mark2w0jmk" <mw3hqt@>
> >> > To: <mkars80@yahoogroups.co.uk>
> >> > Sent: Saturday, May 16, 2009 10:46 AM
> >> > Subject: [mkars80] Re: 3.7500 huf and puff wont lock
> >> >
> >> >
> >> > > hi steve yes the firmware is v2.4. i have made a mistake on the
> >> > > frequency
> >> > > it happens on 3.775 MHz not 3.750 MHz but i think that wont make a
> >> > > difference.
> >> > >
> >> > > the display locks say on 3.775.000 and then the u will appear and the
> >> > > frequency will go up a few hertz + will appear and it will stop but
> >> > > the u
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> >> > > just moves from u to + and this will happen when the radio has been
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> >> > > the radio has been on now for 0ne and a half hours and it is still on
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> >> > >>
> >> > >> Mark,
> >> > >> I've been thinking about this one - please confirm you have the

> >> > >> latest
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> >> > >> Steve G6ALU
> >> > >>
> >> > >> ----- Original Message -----
> >> > >> From: "mark2w0jmk" <mw3hqt@>
> >> > >> To: <mkars80@...>
> >> > >> Sent: Thursday, May 14, 2009 10:22 PM
> >> > >> Subject: [mkars80] 3.7500 huf and puff wont lock
> >> > >>
> >> > >>
> >> > >> > hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock
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> 06:22:00
>

929. Re: [mkars80] Re: 3.7500 huf and puff wont lock

Yahoo group: mkars80
Date: 2009-05-22 18:59:11 UTC
From: Steve Drury
Topic: 913 Message: 929

It will help! Thanks for the detective work.... it looks like my dodgy maths again!

Steve G6ALU

----- Original Message -----
From: "panzerbeeb" <mike_mobbs@...>
To: <mkars80@...>
Sent: Friday, May 22, 2009 4:17 PM
Subject: [mkars80] Re: 3.7500 huf and puff wont lock

> Hi Steve,
> On my unit the huff and puff changes at 3.774.100 MHz. Up to this
> frequency teasing the vfo up or down in frequency produces error bars to
> left or right of L (lock). Above this frequency teasing the frequency up
> gives error bars to the left of L, teasing the frequency down gives no
> error bars and goes instantly to unlocked, hence no correction is applied,
> the frequency just drifts upwards. The next change point is 3.775.360,
> above which life is stable again. Interestingly setting the frequency
> above ...360 and acheiving L (lock) is fine, but if the frequency is
> drifting up from the problem area under unlock conditions, it will
> continue past the point at which lock should be achieved. I don't know if
> this helps with the diagnosis at all.
>
> Regards, Mike, G8EEY.
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> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> It doesn't matter how much testing you do there are always unwanted
>> features
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>> Please don't look for faults my radio does it as well, I will (try) and
>> find
>> the bug ASAP and make an update available for any one who wants it.
>>
>> Regards,
>> Steve G6ALU
>>
>>
>>
>> ----- Original Message -----
>> From: "jvwild48" <jvwild@...>
>> To: <mkars80@...>
>> Sent: Wednesday, May 20, 2009 8:31 PM
>> Subject: [mkars80] Re: 3.7500 huf and puff wont lock

>>
>>
>> > Hi Mark and Steve,
>> > My rig is doing exactly the same thing !
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>> >> > This one has me baffled!
>> >> >
>> >> > The VFO is purely analogue so I am surprised the Huff and Puff
>> >> > refuses
>> >> > to
>> >> > lock on particular frequencies. If you would like to return it to me
>> >> > I
>> >> > would
>> >> > willingly sort it for you - I just ask you pay return postage.
>> >> >
>> >> > Regards,
>> >> > Steve G6ALU
>> >> >
>> >> > ----- Original Message -----
>> >> > From: "mark2w0jmk" <mw3hqt@>
>> >> > To: <mkars80@...>
>> >> > Sent: Saturday, May 16, 2009 10:46 AM
>> >> > Subject: [mkars80] Re: 3.7500 huf and puff wont lock
>> >> >
>> >> >
>> >> > > hi steve yes the firmware is v2.4. i have made a mistake on the
>> >> > > frequency
>> >> > > it happens on 3.775 MHz not 3.750 MHz but i think that wont make a
>> >> > > difference.

>> >> > >
>> >> > > the display locks say on 3.775.000 and then the u will appear and
>> >> > > the
>> >> > > frequency will go up a few hertz + will appear and it will stop
>> >> > > but
>> >> > > the u
>> >> > > will appear again and on and on and on i don't get the three lines
>> >> > > at
>> >> > > all
>> >> > > just moves from u to + and this will happen when the radio has
>> >> > > been
>> >> > > on for
>> >> > > some time so i dont think it is the initial worming of the radio.
>> >> > >
>> >> > > the radio has been on now for 0ne and a half hours and it is still
>> >> > > on
>> >> > > the
>> >> > > move from 3.774.800 to at the moment 3.775.270 from mark
>> >> > >
>> >> > >
>> >> > >
>> >> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >> > >>
>> >> > >> Mark,
>> >> > >> I've been thinking about this one - please confirm you have the
>> >> > >> latest
>> >> > >> firmware V2.4 (shown on the LCD at start-up).
>> >> > >>
>> >> > >> Does the display continuously change in frequency so won't let
>> >> > >> the
>> >> > >> Huff
>> >> > >> and
>> >> > >> Puff lock? If so it may be worth changing C50 the 10uF
>> >> > >> electrolytic,
>> >> > >> let
>> >> > >> me
>> >> > >> know if you need one.
>> >> > >>
>> >> > >> I spent some time on a radio recently where the leakage in C50
>> >> > >> was
>> >> > >> too
>> >> > >> high,
>> >> > >> this caused the symptoms I describe.
>> >> > >>
>> >> > >> Steve G6ALU
>> >> > >>
>> >> > >> ----- Original Message -----
>> >> > >> From: "mark2w0jmk" <mw3hqt@>
>> >> > >> To: <mkars80@...>
>> >> > >> Sent: Thursday, May 14, 2009 10:22 PM

>> >> > >> Subject: [mkars80] 3.7500 huf and puff wont lock
>> >> > >>
>> >> > >>
>> >> > >> > hi Steve when i put my mkars-80 on 3.7500 MHz it will not lock
>> >> > >> > onto the
>> >> > >> > frequency 3.7600 and above and 3.7400 and below is ok any ideas
>> >> > >> > Steve
>> >> > >> > it
>> >> > >> > has been like this since i built it.
>> >> > >> > one very confused mark 2w0jmk
>> >> > >> >
>> >> > >> >
>> >> > >> >
>> >> > >> > ------------------------------------
>> >> > >> >
>> >> > >> > Yahoo! Groups Links
>> >> > >> >
>> >> > >> >
>> >> > >> >
>> >> > >>
>> >> > >>
>> >> > >>

>> >> > >>
>> >> > >>
>> >> > >>
>> >> > >> No virus found in this incoming message.
>> >> > >> Checked by AVG - www.avg.com
>> >> > >> Version: 8.5.329 / Virus Database: 270.12.29/2114 - Release Date:
>> >> > >> 05/14/09
>> >> > >> 06:28:00
>> >> > >>
>> >> > >
>> >> > >
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>> >> > >
>> >> > > ------------------------------------
>> >> > >
>> >> > > Yahoo! Groups Links
>> >> > >
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>> >> >
>> >> >
>> >> > ---
>> >> >
>> >> >
>> >> >
>> >> > No virus found in this incoming message.
>> >> > Checked by AVG - www.avg.com

>> >> > Version: 8.5.329 / Virus Database: 270.12.32/2117 - Release Date:
>> >> > 05/15/09
>> >> > 17:55:00
>> >> >
>> >>
>> >
>> >
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
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>> >
>> >
>>
>>
>> --
>>
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.339 / Virus Database: 270.12.35/2124 - Release Date:
>> 05/20/09
>> 06:22:00
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.36/2127 - Release Date: 05/21/09
17:51:00

930. Re: MKARS80 with last digit (Hz) suppressed

Yahoo group: mkars80
Date: 2009-05-22 22:52:26 UTC
From: Colin Lowe
Topic: 623 Message: 930

Ron,

Please can you put the PIC code you modified into the files section so that I can experiment with it on my MKARS80.

Regards
Colin
G1IVG

--- In mkars80@..., "Ron" <pa0rcl@...> wrote:
>
> Hello Steve and all,
>
> Easier than I had anticipated I was able to modify the PIC16F818's code
> to suppress the Hz digit (and also display MHz again). I thought it
> would make tuning easier. Personally, I was not too interested in the
> Hz digit as in SSB the last 10 Hz do not matter much for voice
> readability. Also, all my other rigs do not display the Hz digit, I
> thought not for no reason.
> To cut a long story short, suppressing the Hz digit does make tuning a
> little easier indeed, but not much. I will leave the present setting
> for a few days to gain more experience. One advantage is that the +
> sign indicating the H+P centre comes out better on the display as there
> is no character on top of it any more, hi.
>
> 73 and enjoy the hobby,
>
> Ron pa0rcl
>

931. 10 Hz digit suppressed

Yahoo group: mkars80
Date: 2009-05-24 09:22:49 UTC
From: ronvingerling@ymail.com
Topic: 931 Message: 931

Colin, the assembler file is in the files section in a folder named PA0RCL. Look at lines 536 and 537.
Good luck,

Ron pa0rcl

932. Re: 10 Hz digit suppressed

Yahoo group: mkars80
Date: 2009-05-24 21:22:16 UTC
From: Colin Lowe
Topic: 931 Message: 932

Many thanks Ron,

I've just re-programmed my PIC with your code and I prefer it now with one digit less and also the reading in MHz.

Regards Colin. G1IVG
--- In mkars80@..., "ronvingerling@..." <ronvingerling@...> wrote:
>
> Colin, the assembler file is in the files section in a folder named PA0RCL. Look at lines 536 and 537.
> Good luck,
>
> Ron pa0rcl
>

933. How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-29 22:16:04 UTC
From: Colin Lowe
Topic: 933 Message: 933

For those that are available how about tuning up at 9pm (BST) on Sunday and trying a few MKARS80 to MKRS80 contacts?

I for one will be on 3.753MHz + or - 5KHz at 9pm on Sunday all going well.

73 de Colin
G1IVG
IO92NL
Mkt Harborough
Leicestershire.

934. Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-29 22:19:43 UTC
From: mark2w0jmk
Topic: 933 Message: 934

good call i will be there from mark 2w0jmk

--- In mkars80@....uk, "Colin Lowe" <g1ivg@...> wrote:
>
> For those that are available how about tuning up at 9pm (BST) on Sunday and trying a few MKARS80 to MKRS80 contacts?
>
> I for one will be on 3.753MHz + or - 5KHz at 9pm on Sunday all going well.
>
> 73 de Colin
> G1IVG
> IO92NL
> Mkt Harborough
> Leicestershire.
>

935. Re: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-30 06:30:44 UTC
From: Steve Drury
Topic: 933 Message: 935

We are doing another special event at the Milton Keynes museum on Sunday,
its a bit of a tall order but I will see if we can get set up for 9:00AM.
The call will be GB2MKM, the event is a telephone day see:

http://www.mkmuseum.org.uk/visiting/vis-telday.htm

Steve G6ALU

----- Original Message -----
From: "Colin Lowe" <g1ivg@...>
To: <mkars80@...>
Sent: Friday, May 29, 2009 11:16 PM
Subject: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

> For those that are available how about tuning up at 9pm (BST) on Sunday
> and trying a few MKARS80 to MKRS80 contacts?
>
> I for one will be on 3.753MHz + or - 5KHz at 9pm on Sunday all going well.
>
> 73 de Colin
> G1IVG
> IO92NL
> Mkt Harborough
> Leicestershire.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.45/2141 - Release Date: 05/29/09
06:28:00

936. RE: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-30 10:01:50 UTC
From: David White
Topic: 933 Message: 936

3.753 hmmmm steve says 9 AM two others say 9 PM gonna be fun trying to make a QSO de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Sat, 30 May 2009 07:30:44 +0100
Subject: Re: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

We are doing another special event at the Milton Keynes museum on Sunday,
its a bit of a tall order but I will see if we can get set up for 9:00AM.
The call will be GB2MKM, the event is a telephone day see:

http://www.mkmuseum.org.uk/visiting/vis-telday.htm

Steve G6ALU

----- Original Message -----
From: "Colin Lowe" <g1ivg@...>
To: <mkars80@...>
Sent: Friday, May 29, 2009 11:16 PM
Subject: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

> For those that are available how about tuning up at 9pm (BST) on Sunday
> and trying a few MKARS80 to MKRS80 contacts?
>
> I for one will be on 3.753MHz + or - 5KHz at 9pm on Sunday all going well.
>
> 73 de Colin
> G1IVG
> IO92NL
> Mkt Harborough
> Leicestershire.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com

Version: 8.5.339 / Virus Database: 270.12.45/2141 - Release Date: 05/29/09 06:28:00

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http://clk.atdmt.com/UKM/go/137984870/direct/01/

[Non-text portions of this message have been removed]

937. Re: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-30 12:15:01 UTC
From: Steve Drury
Topic: 933 Message: 937

Didn't you know I had just re-furbished the Tardis?!

Sorry I didn't read the earlier emails properly..... perhaps I will stay in
bed a bit longer.

Steve G6ALU

----- Original Message -----
From: "David White" <davidwhite400@...>
To: <mkars80@...>
Sent: Saturday, May 30, 2009 11:01 AM
Subject: RE: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

3.753 hmmmm steve says 9 AM two others say 9 PM gonna be fun trying
to make a QSO de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Sat, 30 May 2009 07:30:44 +0100
Subject: Re: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

We are doing another special event at the Milton Keynes museum on Sunday,
its a bit of a tall order but I will see if we can get set up for 9:00AM.
The call will be GB2MKM, the event is a telephone day see:

http://www.mkmuseum.org.uk/visiting/vis-telday.htm

Steve G6ALU

----- Original Message -----
From: "Colin Lowe" <g1ivg@...>
To: <mkars80@...>
Sent: Friday, May 29, 2009 11:16 PM
Subject: [mkars80] How about a net on 3.753MHz LSB @ 21:00 Sunday ?

> For those that are available how about tuning up at 9pm (BST) on Sunday
> and trying a few MKARS80 to MKRS80 contacts?
>
> I for one will be on 3.753MHz + or - 5KHz at 9pm on Sunday all going well.
>
> 73 de Colin
> G1IVG
> IO92NL
> Mkt Harborough
> Leicestershire.
>

>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.45/2141 - Release Date: 05/29/09
06:28:00

_____
View your Twitter and Flickr updates from one place - Learn more!
http://clk.atdmt.com/UKM/go/137984870/direct/01/

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.46/2143 - Release Date: 05/30/09
05:53:00

938. Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-30 19:16:23 UTC
From: Glyn Maggs
Topic: 933 Message: 938

Hi everyone, G3ZSV, just completed my MKARS80, fantastic- worked right out of the packets! I've not tested the TX yet but the RX seems fine. I'll be listening tomorrow but I'm afraid I can't TX- too frightened at the moment as I had a pacemaker fitted just over a week ago and need confirmation from the makers that it's ok with amateur radio!!!!
Congratulations Steve, fantastic documentation just about foolproof (well I did it!!)
73 Glyn

939. Re: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-30 19:55:14 UTC
From: Steve Drury
Topic: 933 Message: 939

Hello Glyn,
Congratulations on it working 1st time.

I'm sure your pacemaker will be OK, the RF from mobile phones is much more likely to cause problems than 5W of RF at 80M but I don't blame you on getting confirmation first!

Regards,
Steve G6ALU

----- Original Message -----
From: "Glyn Maggs" <glynmaggs@...>
To: <mkars80@...>
Sent: Saturday, May 30, 2009 8:16 PM
Subject: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

> Hi everyone, G3ZSV, just completed my MKARS80, fantastic- worked right out
> of the packets! I've not tested the TX yet but the RX seems fine. I'll be
> listening tomorrow but I'm afraid I can't TX- too frightened at the moment
> as I had a pacemaker fitted just over a week ago and need confirmation
> from the makers that it's ok with amateur radio!!!!
> Congratulations Steve, fantastic documentation just about foolproof (well
> I did it!!)
> 73 Glyn
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.46/2143 - Release Date: 05/30/09 05:53:00

940. Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-31 20:21:16 UTC
From: Colin Lowe
Topic: 933 Message: 940

Nothing heard this evening from my QTH on 3.753 MHz apart from QRM from Germany and Ireland.

73 de Colin
G1IVG

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hello Glyn,
> Congratulations on it working 1st time.
>
> I'm sure your pacemaker will be OK, the RF from mobile phones is much more
> likely to cause problems than 5W of RF at 80M but I don't blame you on
> getting confirmation first!
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Glyn Maggs" <glynmaggs@...>
> To: <mkars80@...>
> Sent: Saturday, May 30, 2009 8:16 PM
> Subject: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?
>
>
> > Hi everyone, G3ZSV, just completed my MKARS80, fantastic- worked right out
> > of the packets! I've not tested the TX yet but the RX seems fine. I'll be
> > listening tomorrow but I'm afraid I can't TX- too frightened at the moment
> > as I had a pacemaker fitted just over a week ago and need confirmation
> > from the makers that it's ok with amateur radio!!!!
> > Congratulations Steve, fantastic documentation just about foolproof (well
> > I did it!!)
> > 73 Glyn
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.339 / Virus Database: 270.12.46/2143 - Release Date: 05/30/09
> 05:53:00
>

941. Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-31 20:32:01 UTC
From: g3oth
Topic: 933 Message: 941

Same up here in Northumberland, Colin
Incidently I also heard the Irish and German stations you mentioned
73 de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, "Colin Lowe" <g1ivg@...> wrote:
>
> Nothing heard this evening from my QTH on 3.753 MHz apart from QRM from Germany and Ireland.
>
> 73 de Colin
> G1IVG
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Hello Glyn,
> > Congratulations on it working 1st time.
> >
> > I'm sure your pacemaker will be OK, the RF from mobile phones is much more
> > likely to cause problems than 5W of RF at 80M but I don't blame you on
> > getting confirmation first!
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Glyn Maggs" <glynmaggs@>
> > To: <mkars80@...>
> > Sent: Saturday, May 30, 2009 8:16 PM
> > Subject: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?
> >
> >
> > > Hi everyone, G3ZSV, just completed my MKARS80, fantastic- worked right out
> > > of the packets! I've not tested the TX yet but the RX seems fine. I'll be
> > > listening tomorrow but I'm afraid I can't TX- too frightened at the moment
> > > as I had a pacemaker fitted just over a week ago and need confirmation
> > > from the makers that it's ok with amateur radio!!!!
> > > Congratulations Steve, fantastic documentation just about foolproof (well
> > > I did it!!)
> > > 73 Glyn
> > >
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> > > Yahoo! Groups Links

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> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.339 / Virus Database: 270.12.46/2143 - Release Date: 05/30/09
> > 05:53:00
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>

942. Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-31 20:37:41 UTC
From: mark2w0jmk
Topic: 933 Message: 942

hi all same here and i was looking forward to a good old chin wag o well 73's de 2w0jmk

--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> Same up here in Northumberland, Colin
> Incidently I also heard the Irish and German stations you mentioned
> 73 de Charles G3OTH
>
> --- In mkars80@..., "Colin Lowe" <g1ivg@> wrote:
> >
> > Nothing heard this evening from my QTH on 3.753 MHz apart from QRM from Germany and Ireland.
> >
> > 73 de Colin
> > G1IVG
> >
> > --- In mkars80@....uk, "Steve Drury" <g6alu@> wrote:
> > >
> > > Hello Glyn,
> > > Congratulations on it working 1st time.
> > >
> > > I'm sure your pacemaker will be OK, the RF from mobile phones is much more
> > > likely to cause problems than 5W of RF at 80M but I don't blame you on
> > > getting confirmation first!
> > >
> > > Regards,
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "Glyn Maggs" <glynmaggs@>
> > > To: <mkars80@yahoogroups.co.uk>
> > > Sent: Saturday, May 30, 2009 8:16 PM
> > > Subject: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?
> > >
> > >
> > > > Hi everyone, G3ZSV, just completed my MKARS80, fantastic- worked right out
> > > > of the packets! I've not tested the TX yet but the RX seems fine. I'll be
> > > > listening tomorrow but I'm afraid I can't TX- too frightened at the moment
> > > > as I had a pacemaker fitted just over a week ago and need confirmation
> > > > from the makers that it's ok with amateur radio!!!!
> > > > Congratulations Steve, fantastic documentation just about foolproof (well
> > > > I did it!!)
> > > > 73 Glyn
> > > >
> > > >

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> > > >
> > > > Yahoo! Groups Links
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> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - www.avg.com
> > > Version: 8.5.339 / Virus Database: 270.12.46/2143 - Release Date: 05/30/09
> > > 05:53:00
> > >
> >
>

943. Re: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-05-31 20:51:27 UTC
From: Steve Drury
Topic: 933 Message: 943

I'm not sure what I'm doing next Sunday just yet, but can I suggest a net
next Sunday in the morning?

Steve G6ALU

----- Original Message -----
From: "mark2w0jmk" <mw3hqt@...>
To: <mkars80@...>
Sent: Sunday, May 31, 2009 9:37 PM
Subject: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

> hi all same here and i was looking forward to a good old chin wag o well
> 73's de 2w0jmk
>
>
>
> --- In mkars80@..., "g3oth" <g3oth@...> wrote:
>>
>> Same up here in Northumberland, Colin
>> Incidently I also heard the Irish and German stations you mentioned
>> 73 de Charles G3OTH
>>
>> --- In mkars80@..., "Colin Lowe" <g1ivg@> wrote:
>> >
>> > Nothing heard this evening from my QTH on 3.753 MHz apart from QRM from
>> > Germany and Ireland.
>> >
>> > 73 de Colin
>> > G1IVG
>> >
>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> > >
>> > > Hello Glyn,
>> > > Congratulations on it working 1st time.
>> > >
>> > > I'm sure your pacemaker will be OK, the RF from mobile phones is much
>> > > more
>> > > likely to cause problems than 5W of RF at 80M but I don't blame you
>> > > on
>> > > getting confirmation first!
>> > >
>> > > Regards,
>> > > Steve G6ALU
>> > >
>> > > ----- Original Message -----
>> > > From: "Glyn Maggs" <glynmaggs@>

>> > > To: <mkars80@...>
>> > > Sent: Saturday, May 30, 2009 8:16 PM
>> > > Subject: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday
>> > > ?
>> > >
>> > >
>> > > > Hi everyone, G3ZSV, just completed my MKARS80, fantastic- worked
>> > > > right out
>> > > > of the packets! I've not tested the TX yet but the RX seems fine.
>> > > > I'll be
>> > > > listening tomorrow but I'm afraid I can't TX- too frightened at the
>> > > > moment
>> > > > as I had a pacemaker fitted just over a week ago and need
>> > > > confirmation
>> > > > from the makers that it's ok with amateur radio!!!!
>> > > > Congratulations Steve, fantastic documentation just about foolproof
>> > > > (well
>> > > > I did it!!)
>> > > > 73 Glyn
>> > > >
>> > > >
>> > > >
>> > > > ------------------------------------
>> > > >
>> > > > Yahoo! Groups Links
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>> > >
>> > > No virus found in this incoming message.
>> > > Checked by AVG - www.avg.com
>> > > Version: 8.5.339 / Virus Database: 270.12.46/2143 - Release Date:
>> > > 05/30/09
>> > > 05:53:00
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> ------------------------------------
>
> Yahoo! Groups Links
>

>
>

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Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.46/2145 - Release Date: 05/31/09
05:53:00

944. Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?

Yahoo group: mkars80
Date: 2009-06-01 09:21:52 UTC
From: Colin Lowe
Topic: 933 Message: 944

Sounds Good to me Steve, what frequency and time?

73 de Colin
G1IVG

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I'm not sure what I'm doing next Sunday just yet, but can I suggest a net
> next Sunday in the morning?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "mark2w0jmk" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Sunday, May 31, 2009 9:37 PM
> Subject: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday ?
>
>
> > hi all same here and i was looking forward to a good old chin wag o well
> > 73's de 2w0jmk
> >
> >
> >
> > --- In mkars80@..., "g3oth" <g3oth@> wrote:
> >>
> >> Same up here in Northumberland, Colin
> >> Incidently I also heard the Irish and German stations you mentioned
> >> 73 de Charles G3OTH
> >>
> >> --- In mkars80@yahoogroups.co.uk, "Colin Lowe" <g1ivg@> wrote:
> >> >
> >> > Nothing heard this evening from my QTH on 3.753 MHz apart from QRM from
> >> > Germany and Ireland.
> >> >
> >> > 73 de Colin
> >> > G1IVG
> >> >
> >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> > >
> >> > > Hello Glyn,
> >> > > Congratulations on it working 1st time.
> >> > >
> >> > > I'm sure your pacemaker will be OK, the RF from mobile phones is much
> >> > > more

> >> > > likely to cause problems than 5W of RF at 80M but I don't blame you
> >> > > on
> >> > > getting confirmation first!
> >> > >
> >> > > Regards,
> >> > > Steve G6ALU
> >> > >
> >> > > ----- Original Message -----
> >> > > From: "Glyn Maggs" <glynmaggs@>
> >> > > To: <mkars80@yahoogroups.co.uk>
> >> > > Sent: Saturday, May 30, 2009 8:16 PM
> >> > > Subject: [mkars80] Re: How about a net on 3.753MHz LSB @ 21:00 Sunday
> >> > > ?
> >> > >
> >> > >
> >> > > > Hi everyone, G3ZSV, just completed my MKARS80, fantastic- worked
> >> > > > right out
> >> > > > of the packets! I've not tested the TX yet but the RX seems fine.
> >> > > > I'll be
> >> > > > listening tomorrow but I'm afraid I can't TX- too frightened at the
> >> > > > moment
> >> > > > as I had a pacemaker fitted just over a week ago and need
> >> > > > confirmation
> >> > > > from the makers that it's ok with amateur radio!!!!
> >> > > > Congratulations Steve, fantastic documentation just about foolproof
> >> > > > (well
> >> > > > I did it!!)
> >> > > > 73 Glyn
> >> > > >
> >> > > >
> >> > > >
> >> > > > ------------------------------------
> >> > > >
> >> > > > Yahoo! Groups Links
> >> > > >
> >> > > >
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> >> > > >
> >> > > > No virus found in this incoming message.
> >> > > > Checked by AVG - www.avg.com
> >> > > > Version: 8.5.339 / Virus Database: 270.12.46/2143 - Release Date:
> >> > > > 05/30/09
> >> > > > 05:53:00
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.339 / Virus Database: 270.12.46/2145 - Release Date: 05/31/09
> 05:53:00
>

945. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2009-06-09 11:20:29 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 945

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /PT 3251.jpg
Uploaded by : glynmaggs <glynmaggs@...>
Description : ADAPTOR FOR MAIN TUNING

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/PT%203251.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

glynmaggs <glynmaggs@...>

946. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2009-06-09 11:25:40 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 946

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /PT 3250.jpg
Uploaded by : glynmaggs <glynmaggs@...>
Description : PTT MIC MODS MAPLIN QT21X

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/PT%203250.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

glynmaggs <glynmaggs@...>

947. Frequency stability, temperature and Huff n Puff.

Yahoo group: mkars80
Date: 2009-06-13 11:16:33 UTC
From: m0heu
Topic: 947 Message: 947

I am enjoying slowly building this excellent kit as time allows, (work, baby, wife and garden must come first!).

I would like to house my effort in a bespoke case to provide a more traditional front panel layout and a loud speaker and have a suitable case. It used to house a commercial P.S.U. - it is well ventilated at the sides and has mountings at the rear for a fan.

Here's the thing, I have a little experience of oscillators drifting with temperature change and know that fans and ventilation can actually make things worse. Alternatively, I have read rumours here about people using fans to combat frequency drift caused by warming of the polyvaricon capacitor. I intend to use varactor tuning.

I acknolwedge the presence of the Huff and Puff circuitry and even almost understand it! I want to make sure I have not overlooked anything before drilling the case.

So, can anyone share experience or thoughts about whether my case full of holes is a potential problem?

Many thanks,

Steve / G7HEU.

948. Re: Frequency stability, temperature and Huff n Puff.

Yahoo group: mkars80
Date: 2009-06-15 07:02:28 UTC
From: Glyn Maggs
Topic: 947 Message: 948

Hi Steve, I've just completed mine in the case supplied and find the frequency stability excellent. In fact I've not encountered any measurable drift during the few weeks that I've been using it. The amount of heat generated seems minimal and, in my opinion, would not justify a fan. I'm also considering varactor tuning but why not just build it with the standard variable cap first to prove all is working ok? I'm about to do the slo-mo drive mod which will make a big difference to the ease of tuning but my brain can't get used to the reverse tuning direction! Hoping the varactor mod will be capable of rectifying that.
73 Glyn G3ZSV

--- In mkars80@..., "m0heu" <hawes@...> wrote:
>
>
> I am enjoying slowly building this excellent kit as time allows, (work, baby, wife and garden must come first!).
>
> I would like to house my effort in a bespoke case to provide a more traditional front panel layout and a loud speaker and have a suitable case. It used to house a commercial P.S.U. - it is well ventilated at the sides and has mountings at the rear for a fan.
>
> Here's the thing, I have a little experience of oscillators drifting with temperature change and know that fans and ventilation can actually make things worse. Alternatively, I have read rumours here about people using fans to combat frequency drift caused by warming of the polyvaricon capacitor. I intend to use varactor tuning.
>
> I acknolwedge the presence of the Huff and Puff circuitry and even almost understand it! I want to make sure I have not overlooked anything before drilling the case.
>
> So, can anyone share experience or thoughts about whether my case full of holes is a potential problem?
>
> Many thanks,
>
> Steve / G7HEU.
>

949. MKARS80 Kit Arrived !!

Yahoo group: mkars80
Date: 2009-06-15 22:01:58 UTC
From: jarnold144
Topic: 949 Message: 949

Hi All,

My MKARS80 just arrived!! I really anxious to start construction.

Any advice or recommendations from anyone before I take my first step or make any fatal mistakes??

John, WA6YSY in Washington state USA

950. Re: MKARS80 Kit Arrived !!

Yahoo group: mkars80
Date: 2009-06-15 22:18:48 UTC
From: mark2w0jmk
Topic: 949 Message: 950

hi john the only advice i can give you is to double check all the solder joints. o and have fun good luck from mark 2w0jmk

--- In mkars80@yahoogroups.co.uk, "jarnold144" <johna@...> wrote:
>
> Hi All,
>
> My MKARS80 just arrived!! I really anxious to start construction.
>
> Any advice or recommendations from anyone before I take my first step or make any fatal mistakes??
>
> John, WA6YSY in Washington state USA
>

951. Re: [mkars80] MKARS80 Kit Arrived !!

Yahoo group: mkars80
Date: 2009-06-15 23:15:50 UTC
From: Dave Clench
Topic: 949 Message: 951

Hi John

From my experience the kit is simple to build but make sure you tin the coil connections well and ensure you use sufficient heat when soldering them to the board.

Hope all goes well.

Dave G0BVV
----- Original Message -----
From: jarnold144
To: mkars80@...
Sent: Monday, June 15, 2009 11:01 PM
Subject: [mkars80] MKARS80 Kit Arrived !!

Hi All,

My MKARS80 just arrived!! I really anxious to start construction.

Any advice or recommendations from anyone before I take my first step or make any fatal mistakes??

John, WA6YSY in Washington state USA

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.70/2177 - Release Date: 06/15/09 05:54:00

[Non-text portions of this message have been removed]

952. Re: MKARS80 Kit Arrived !!

Yahoo group: mkars80
Date: 2009-06-16 13:49:42 UTC
From: Glyn Maggs
Topic: 949 Message: 952

John, my best advice is don't rush it! I used a binocular magnifier on a head band and worked on just 3 components at at time- that way they are easily identified on the board. I was trained to solder to US military standards which insisted on 1- place component, 2- clinch leads ie bend to retain component, 3- snip leads close to board, 4- solder, 5- inspect.
Definitely tin all the coil wires before locating in the board.
Re soldering- I used 22 swg multicore solder and a fine tip 50W iron.
Mine worked first time- it really is great fun.... real radio again.
Good luck 73 Glyn G3ZSV
>

953. MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-06-20 17:20:01 UTC
From: Colin Lowe
Topic: 953 Message: 953

All,

A couple of weeks ago Glyn G3ZSV and myself had a QSO, MKARS80 to MKARS80 both on 5w and managed a QSO over a distance of 195miles fom Devon to Leicestershire.

If your around on Sunday at 9:30pm, tune in on or around 3.690 MHz and we will see how many MKARS80's we can get on the net.

73 de Colin G1IVG.

954. Re: [mkars80] MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-06-20 17:53:48 UTC
From: Steve Drury
Topic: 953 Message: 954

How about a net in the morning? We will be at Milton Keynes Museum for the Museums on the air event using call GB2MKM.

9:30AM sounds good to me.

Steve G6ALU

----- Original Message -----
From: "Colin Lowe" <g1ivg@...>
To: <mkars80@...>
Sent: Saturday, June 20, 2009 6:20 PM
Subject: [mkars80] MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

> All,
>
> A couple of weeks ago Glyn G3ZSV and myself had a QSO, MKARS80 to MKARS80
> both on 5w and managed a QSO over a distance of 195miles fom Devon to
> Leicestershire.
>
> If your around on Sunday at 9:30pm, tune in on or around 3.690 MHz and we
> will see how many MKARS80's we can get on the net.
>
> 73 de Colin G1IVG.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.81/2189 - Release Date: 06/20/09 06:15:00

955. Had first QSO with MKARS80 yesterday

Yahoo group: mkars80
Date: 2009-06-20 20:22:27 UTC
From: trance612000
Topic: 955 Message: 955

Hi Folks,

Finished construction of MKARS80 a couple of days ago, and had my first QSO using it yesterday - excellent, think I am going to have to look at upgrading my antenna for better results on 80m though.

Posted a few pictures on my website here:

http://www.furcot.com/MKARS80.htm

regards

George G7GQC

956. Re: [mkars80] MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-06-21 21:06:41 UTC
From: Steve Drury
Topic: 953 Message: 956

OK, we did have a net this evening:

G7HEU Steve - not on a MKARS80!
G1IUG Colin
M1EEL Mick

And thanks to DF1KBM for vacating the frequency.

We will try 9:30 AM next Sunday on 3.690 or there abouts... its not easy in the evening on QRP!

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Saturday, June 20, 2009 6:53 PM
Subject: Re: [mkars80] MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

> How about a net in the morning? We will be at Milton Keynes Museum for the
> Museums on the air event using call GB2MKM.
>
> 9:30AM sounds good to me.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Colin Lowe" <g1ivg@...>
> To: <mkars80@...>
> Sent: Saturday, June 20, 2009 6:20 PM
> Subject: [mkars80] MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM
>
>
>> All,
>>
>> A couple of weeks ago Glyn G3ZSV and myself had a QSO, MKARS80 to MKARS80
>> both on 5w and managed a QSO over a distance of 195miles fom Devon to
>> Leicestershire.
>>
>> If your around on Sunday at 9:30pm, tune in on or around 3.690 MHz and we
>> will see how many MKARS80's we can get on the net.
>>
>> 73 de Colin G1IVG.
>>

>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.339 / Virus Database: 270.12.81/2189 - Release Date: 06/20/09
> 06:15:00
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.81/2189 - Release Date: 06/20/09
06:15:00

957. Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-06-21 21:32:32 UTC
From: m0heu
Topic: 953 Message: 957

Conditions were challenging to say the least. However, I can say that G6ALU, G1IVG and M1EEL were all a true 5/9 at some point - all be it briefly!

I was excited to hear very good TX audio from the MKARS80s when the signal strength allowed critical listening. Hopefully my own kit will be finished in time for the net on Sunday morning.

Thanks all,

Steve - G7HEU.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> OK, we did have a net this evening:
>
> G7HEU Steve - not on a MKARS80!
> G1IUG Colin
> M1EEL Mick
>
> And thanks to DF1KBM for vacating the frequency.
>
> We will try 9:30 AM next Sunday on 3.690 or there abouts... its not easy in
> the evening on QRP!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Saturday, June 20, 2009 6:53 PM
> Subject: Re: [mkars80] MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/-
> QRM
>
>
> > How about a net in the morning? We will be at Milton Keynes Museum for the
> > Museums on the air event using call GB2MKM.
> >
> > 9:30AM sounds good to me.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Colin Lowe" <g1ivg@...>
> > To: <mkars80@...>
> > Sent: Saturday, June 20, 2009 6:20 PM
> > Subject: [mkars80] MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

> >
> >
> >> All,
> >>
> >> A couple of weeks ago Glyn G3ZSV and myself had a QSO, MKARS80 to MKARS80
> >> both on 5w and managed a QSO over a distance of 195miles fom Devon to
> >> Leicestershire.
> >>
> >> If your around on Sunday at 9:30pm, tune in on or around 3.690 MHz and we
> >> will see how many MKARS80's we can get on the net.
> >>
> >> 73 de Colin G1IVG.
> >>
> >>
> >>
> >> ------------------------------------
> >>
> >> Yahoo! Groups Links
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> > > No virus found in this incoming message.
> > > Checked by AVG - www.avg.com
> > > Version: 8.5.339 / Virus Database: 270.12.81/2189 - Release Date: 06/20/09
> > > 06:15:00
> > >
> > >
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> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.339 / Virus Database: 270.12.81/2189 - Release Date: 06/20/09
> > 06:15:00

>

958. Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 17:57:56 UTC
From: dawsonr45
Topic: 958 Message: 958

Am I the only one who hss had difficulty reading the circuit. The components and connections are clear enouth but the component identy and values are illegible. I've printed it on photo paper and blown it up to A3 but no good. I can build it withour this but fault finding is going to be impossible.

Richard

959. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 18:34:15 UTC
From: Steve Drury
Topic: 958 Message: 959

Hi Richard,
You are not the only one!

I put a circuit diagram in a picture format on the website:

http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS80%20-%20Hi%20res%20schematic.jpg

Please download it, open and print it using your favourite paint program.
This way you can print only that part you are interested in.

Regards,
Steve G6ALU

----- Original Message -----
From: "dawsonr45" <dawsonr45@...>
To: <mkars80@...>
Sent: Wednesday, June 24, 2009 6:57 PM
Subject: [mkars80] Circuit Diagraam

> Am I the only one who hss had difficulty reading the circuit. The
> components and connections are clear enouth but the component identy and
> values are illegible. I've printed it on photo paper and blown it up to
> A3 but no good. I can build it withour this but fault finding is going
> to be impossible.
>
> Richard
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.90/2200 - Release Date: 06/24/09
12:49:00

960. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 18:51:30 UTC
From: LEE BAHR
Topic: 958 Message: 960

I wish someone would re-draw the diagram. It is fuzzy and the light blue parts labels make it even worse. No program is going to correct this. The schematic in it's present form is unusable. Why in the world would anyone draw the diagram using light blue labels for parts? I tried printing in only "grey scale" with no improvement. The resolution of the diagram is just not there. In grey scale you still can't read the labels.

Lee, w0vt

Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Wednesday, June 24, 2009 1:34 PM
Subject: Re: [mkars80] Circuit Diagraam

Hi Richard,
You are not the only one!

I put a circuit diagram in a picture format on the website:

http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS80%20-%20Hi%20res%20schematic.jpg

Please download it, open and print it using your favourite paint program.
This way you can print only that part you are interested in.

Regards,
Steve G6ALU

----- Original Message -----
From: "dawsonr45" <dawsonr45@...>
To: <mkars80@...>
Sent: Wednesday, June 24, 2009 6:57 PM
Subject: [mkars80] Circuit Diagraam

> Am I the only one who hss had difficulty reading the circuit. The
> components and connections are clear enouth but the component identy and
> values are illegible. I've printed it on photo paper and blown it up to
> A3 but no good. I can build it withour this but fault finding is going
> to be impossible.
>
> Richard
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.90/2200 - Release Date: 06/24/09
12:49:00

[Non-text portions of this message have been removed]

961. Circuit Diagrams you can Print on A4 Printer

Yahoo group: mkars80
Date: 2009-06-24 19:59:25 UTC
From: Paul
Topic: 961 Message: 961

Hi All,

Reading the messages earlier today, I have made 3 files which you can print on a normal A4 printer.

You tape them together and you have yourself a schematic you can work with.

The will print in landscape mode and start Top left and finish bottom right of a grid.

The files are called:-
MKARS80 Circuit Diagram - Prints on 9x A4 sheets (3x3)
MKARS80 Circuit Diagram - Prints on 16x A4 sheets (4x4)
MKARS80 Circuit Diagram - Prints on 25x A4 sheets (5x5)

Hope they help.

73

Paul Gibson MØTZO

962. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 20:26:46 UTC
From: Steve Drury
Topic: 958 Message: 962

Snip...

"Why in the world would anyone draw the diagram using light blue labels for parts?"

The drawing conforms to a professional standard and works perfectly when viewed within the original design environment, yours is the first complaint though about the colour!

I can easily change the colour to black but its the size and font that matter. The diagram really needs to be broken up and re-drawn into separate parts, I will see what can be done.

Steve G6ALU

963. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 21:58:57 UTC
From: LEE BAHR
Topic: 958 Message: 963

Steve;

It won't matter what the color is. Right now the resolution is so bad there are not enough pixels in the file to print something clear enough to read. The blue even makes it worse. I'd like to hear from anyone who can tell me they can read this file. I'm talking about the labels. The wiring is OK, not great but readable. Anyone, can you see the labeling well enough to read it?

Steve, whomever has the original drawing needs to recapture it with greater resolution and then distribute this new file. Nothing is going to improve the resolution of this old one.

Lee, w0vt

Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Wednesday, June 24, 2009 3:26 PM
Subject: Re: [mkars80] Circuit Diagraam

Snip...

"Why in the world would anyone draw the diagram using light blue labels for parts?"

The drawing conforms to a professional standard and works perfectly when viewed within the original design environment, yours is the first complaint though about the colour!

I can easily change the colour to black but its the size and font that matter. The diagram really needs to be broken up and re-drawn into separate parts, I will see what can be done.

Steve G6ALU

[Non-text portions of this message have been removed]

964. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 22:26:29 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 958 Message: 964

Which file exactly, Lee?
I've never had problems.

LEE BAHR wrote:
> Steve;
>
> It won't matter what the color is. Right now the resolution is so bad there are not enough pixels in the file to print something clear enough to read. The blue even makes it worse. I'd like to hear from anyone who can tell me they can read this file. I'm talking about the labels. The wiring is OK, not great but readable. Anyone, can you see the labeling well enough to read it?
>
> Steve, whomever has the original drawing needs to recapture it with greater resolution and then distribute this new file. Nothing is going to improve the resolution of this old one.
>
> Lee, w0vt

965. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 22:37:10 UTC
From: LEE BAHR
Topic: 958 Message: 965

Let's start with the photo file you sent out today. I find it no different then the one on the web site. I would be happy to pay someone to send me a readable schematic. Seems odd I can download schematics all day long on the internet I can read for other electronics.

Lee, w0vt

----- Original Message -----
From: Nigel Gunn G8IFF/W8IFF
To: mkars80@...
Sent: Wednesday, June 24, 2009 5:26 PM
Subject: Re: [mkars80] Circuit Diagraam

Which file exactly, Lee?
I've never had problems.

LEE BAHR wrote:
> Steve;
>
> It won't matter what the color is. Right now the resolution is so bad there are not enough pixels in the file to print something clear enough to read. The blue even makes it worse. I'd like to hear from anyone who can tell me they can read this file. I'm talking about the labels. The wiring is OK, not great but readable. Anyone, can you see the labeling well enough to read it?
>
> Steve, whomever has the original drawing needs to recapture it with greater resolution and then distribute this new file. Nothing is going to improve the resolution of this old one.
>
> Lee, w0vt

[Non-text portions of this message have been removed]

966. Re: Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 23:18:45 UTC
From: ukskidmark
Topic: 958 Message: 966

I've just saved and viewed the file Steve G6ALU posted and it's fine.

It's 6627 x 4277 pixels at 300dpi and is very readable, even for a jpg.

Example: http://www.skidmark.net/images/zoomed_mkars.jpg
<http://www.skidmark.net/images/zoomed_mkars.jpg>

[Non-text portions of this message have been removed]

967. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-24 23:27:30 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 958 Message: 967

There's nothing wrong with that file. It's you.

LEE BAHR wrote:
> Let's start with the photo file you sent out today. I find it no different then the one on the web site. I would be happy to pay someone to send me a readable schematic. Seems odd I can download schematics all day long on the internet I can read for other electronics.
>
> Lee, w0vt
>
>
> ----- Original Message -----
> From: Nigel Gunn G8IFF/W8IFF
> To: mkars80@...
> Sent: Wednesday, June 24, 2009 5:26 PM
> Subject: Re: [mkars80] Circuit Diagraam
>
>
>
>
>
> Which file exactly, Lee?
> I've never had problems.
>
> LEE BAHR wrote:
> > Steve;
> >
> > It won't matter what the color is. Right now the resolution is so bad there are not enough pixels in the file to print something clear enough to read. The blue even makes it worse. I'd like to hear from anyone who can tell me they can read this file. I'm talking about the labels. The wiring is OK, not great but readable. Anyone, can you see the labeling well enough to read it?
> >
> > Steve, whomever has the original drawing needs to recapture it with greater resolution and then distribute this new file. Nothing is going to improve the resolution of this old one.
> >
> > Lee, w0vt
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> [Non-text portions of this message have been removed]
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> ------------------------------------
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> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.339 / Virus Database: 270.12.90/2198 - Release Date: 06/23/09 17:54:00
>

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.

968. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-25 00:56:43 UTC
From: LEE BAHR
Topic: 958 Message: 968

OK, it's me. Seems odd I don't have problems with other PC files. I'll leave it at that. If there is anyone on here that could send me a nice copy of the schematic I could read and use I would be most happy to reimburse you for your efforts. It seems my new computer is unable to print one out. I can be reached at: pulsarxp@... My mailing address is: Leland L. Bahr, w0vt, 914 Golden Bear Lane, Kingwood, Texas 77339-2900, USA

I would be most appreciative of someone's effort to send me one.

73,

Lee, w0vt

----- Original Message -----
From: Nigel Gunn G8IFF/W8IFF
To: mkars80@...
Sent: Wednesday, June 24, 2009 6:27 PM
Subject: Re: [mkars80] Circuit Diagraam

There's nothing wrong with that file. It's you.

LEE BAHR wrote:
> Let's start with the photo file you sent out today. I find it no different then the one on the web site. I would be happy to pay someone to send me a readable schematic. Seems odd I can download schematics all day long on the internet I can read for other electronics.
>
> Lee, w0vt
>
>
> ----- Original Message -----
> From: Nigel Gunn G8IFF/W8IFF
> To: mkars80@...
> Sent: Wednesday, June 24, 2009 5:26 PM
> Subject: Re: [mkars80] Circuit Diagraam
>
>
>
>
>
> Which file exactly, Lee?
> I've never had problems.
>
> LEE BAHR wrote:
> > Steve;
> >
> > It won't matter what the color is. Right now the resolution is so bad there are not enough pixels in the file to print something clear enough to read. The blue even makes it

worse. I'd like to hear from anyone who can tell me they can read this file. I'm talking about the labels. The wiring is OK, not great but readable. Anyone, can you see the labeling well enough to read it?
> >
> > Steve, whomever has the original drawing needs to recapture it with greater resolution and then distribute this new file. Nothing is going to improve the resolution of this old one.
> >
> > Lee, w0vt
>
>
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>
> [Non-text portions of this message have been removed]
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> ------------------------------------
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> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.339 / Virus Database: 270.12.90/2198 - Release Date: 06/23/09 17:54:00
>

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.

[Non-text portions of this message have been removed]

969. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-25 05:36:01 UTC
From: LEE BAHR
Topic: 958 Message: 969

OK, thanks to Steve, AA7U, I now downloaded the new schematic posts in the file section from M0TZO which were put there in the last day or so. That worked. I had been printing the earlier posted schematic which was terrible. I'll now paste everything together and I can read the schematic with ease.

Thanks, Steve, you were a great help. I also learned a lot today about human nature and took notes.

73,

Lee, w0vt
Houston, Texas

[Non-text portions of this message have been removed]

970. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-25 07:11:45 UTC
From: John YAHOO
Topic: 958 Message: 970

If this is the file you can view it very clearly on screen
http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS80%20-%20Hi%20res%20schematic.jpg

Using IE6, at first when the file opens resolution is very poor but leave
your mouse cursor in middle screen for a few seconds and an enlargement icon
appears in the bottom right of the screen (not the task bar). Click on the
enarlement icon

John, G3UGY

> It won't matter what the color is. Right now the resolution is so bad
> there are not enough pixels in the file to print something clear enough to
> read. The blue even makes it worse. I'd like to hear from anyone who can
> tell me they can read this file. I'm talking about the labels. The
> wiring is OK, not great but readable. Anyone, can you see the labeling
> well enough to read it?
>
> Steve, whomever has the original drawing needs to recapture it with
> greater resolution and then distribute this new file. Nothing is going to
> improve the resolution of this old one.
>
> Lee, w0vt

971. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-25 20:38:01 UTC
From: Steve Drury
Topic: 958 Message: 971

Lee,
In answer to your criticism I have generated a new schematic:

http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS%2080%20-%20Large%20print.pdf

I find it quite readable even when printed at A4 size, let me know what you think?

Steve G6ALU

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
To: <mkars80@...>
Sent: Wednesday, June 24, 2009 11:37 PM
Subject: Re: [mkars80] Circuit Diagraam

> Let's start with the photo file you sent out today. I find it no
> different then the one on the web site. I would be happy to pay someone
> to send me a readable schematic. Seems odd I can download schematics all
> day long on the internet I can read for other electronics.
>
> Lee, w0vt
>
>
> ----- Original Message -----
> From: Nigel Gunn G8IFF/W8IFF
> To: mkars80@...
> Sent: Wednesday, June 24, 2009 5:26 PM
> Subject: Re: [mkars80] Circuit Diagraam
>
>
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>
>
>
> Which file exactly, Lee?
> I've never had problems.
>
> LEE BAHR wrote:
> > Steve;
> >
> > It won't matter what the color is. Right now the resolution is so bad
> there are not enough pixels in the file to print something clear enough to
> read. The blue even makes it worse. I'd like to hear from anyone who can
> tell me they can read this file. I'm talking about the labels. The wiring
> is OK, not great but readable. Anyone, can you see the labeling well

> enough to read it?
> >
> > Steve, whomever has the original drawing needs to recapture it with
> greater resolution and then distribute this new file. Nothing is going to
> improve the resolution of this old one.
> >
> > Lee, w0vt
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> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.90/2200 - Release Date: 06/24/09
12:49:00

972. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-25 21:05:22 UTC
From: LEE BAHR
Topic: 958 Message: 972

Thanks, Steve. This printed out very nicely. Thanks for your efforts.

Lee, w0vt

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Thursday, June 25, 2009 3:38 PM
Subject: Re: [mkars80] Circuit Diagraam

Lee,
In answer to your criticism I have generated a new schematic:

http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS%2080%20-%20Large%20print.pdf

I find it quite readable even when printed at A4 size, let me know what you think?

Steve G6ALU

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
To: <mkars80@...>
Sent: Wednesday, June 24, 2009 11:37 PM
Subject: Re: [mkars80] Circuit Diagraam

> Let's start with the photo file you sent out today. I find it no
> different then the one on the web site. I would be happy to pay someone
> to send me a readable schematic. Seems odd I can download schematics all
> day long on the internet I can read for other electronics.
>
> Lee, w0vt
>
>
> ----- Original Message -----
> From: Nigel Gunn G8IFF/W8IFF
> To: mkars80@...
> Sent: Wednesday, June 24, 2009 5:26 PM
> Subject: Re: [mkars80] Circuit Diagraam
>
>
>
>
>
> Which file exactly, Lee?
> I've never had problems.

>
> LEE BAHR wrote:
> > Steve;
> >
> > It won't matter what the color is. Right now the resolution is so bad
> there are not enough pixels in the file to print something clear enough to
> read. The blue even makes it worse. I'd like to hear from anyone who can
> tell me they can read this file. I'm talking about the labels. The wiring
> is OK, not great but readable. Anyone, can you see the labeling well
> enough to read it?
> >
> > Steve, whomever has the original drawing needs to recapture it with
> greater resolution and then distribute this new file. Nothing is going to
> improve the resolution of this old one.
> >
> > Lee, w0vt
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>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.339 / Virus Database: 270.12.90/2200 - Release Date: 06/24/09
12:49:00

[Non-text portions of this message have been removed]

973. Re: [mkars80] Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-25 21:32:58 UTC
From: Steve Drury
Topic: 958 Message: 973

No problem, I should have done that months ago!

Steve G6ALU

----- Original Message -----
From: "LEE BAHR" <pulsarxp@...>
To: <mkars80@...>
Sent: Thursday, June 25, 2009 10:05 PM
Subject: Re: [mkars80] Circuit Diagraam

> Thanks, Steve. This printed out very nicely. Thanks for your efforts.
>
> Lee, w0vt
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Thursday, June 25, 2009 3:38 PM
> Subject: Re: [mkars80] Circuit Diagraam
>
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>
>
> Lee,
> In answer to your criticism I have generated a new schematic:
>
>
> http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS%2080%20-%20Large%20prin
t.pdf
>
> I find it quite readable even when printed at A4 size, let me know what
> you
> think?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "LEE BAHR" <pulsarxp@...>
> To: <mkars80@...>
> Sent: Wednesday, June 24, 2009 11:37 PM
> Subject: Re: [mkars80] Circuit Diagraam
>
> > Let's start with the photo file you sent out today. I find it no
> > different then the one on the web site. I would be happy to pay someone

> > to send me a readable schematic. Seems odd I can download schematics
> all
> > day long on the internet I can read for other electronics.
> >
> > Lee, w0vt
> >
> >
> > ----- Original Message -----
> > From: Nigel Gunn G8IFF/W8IFF
> > To: mkars80@...
> > Sent: Wednesday, June 24, 2009 5:26 PM
> > Subject: Re: [mkars80] Circuit Diagraam
> >
> >
> >
> >
> >
> > Which file exactly, Lee?
> > I've never had problems.
> >
> > LEE BAHR wrote:
> > > Steve;
> > >
> > > It won't matter what the color is. Right now the resolution is so bad
> > there are not enough pixels in the file to print something clear enough
> to
> > read. The blue even makes it worse. I'd like to hear from anyone who
> can
> > tell me they can read this file. I'm talking about the labels. The
> wiring
> > is OK, not great but readable. Anyone, can you see the labeling well
> > enough to read it?
> > >
> > > Steve, whomever has the original drawing needs to recapture it with
> > greater resolution and then distribute this new file. Nothing is going
> to
> > improve the resolution of this old one.
> > >
> > > Lee, w0vt
> >
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> >
> > [Non-text portions of this message have been removed]
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> >
> > Yahoo! Groups Links

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> --
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.339 / Virus Database: 270.12.90/2200 - Release Date:
> 06/24/09
> 12:49:00
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.12.91/2201 - Release Date: 06/25/09
06:22:00

974. Re: Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-26 00:11:52 UTC
From: panzerbeeb
Topic: 958 Message: 974

Hi Steve,

Is there any significance in the fact that the re-drawing date is Christmas Day 2009? HI

Mike G8EEY

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> No problem, I should have done that months ago!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "LEE BAHR" <pulsarxp@...>
> To: <mkars80@...>
> Sent: Thursday, June 25, 2009 10:05 PM
> Subject: Re: [mkars80] Circuit Diagraam
>
>
> > Thanks, Steve. This printed out very nicely. Thanks for your efforts.
> >
> > Lee, w0vt
> >
> >
> > ----- Original Message -----
> > From: Steve Drury
> > To: mkars80@...
> > Sent: Thursday, June 25, 2009 3:38 PM
> > Subject: Re: [mkars80] Circuit Diagraam
> >
> >
> >
> >
> >
> >
> > Lee,
> > In answer to your criticism I have generated a new schematic:
> >
> >
> > http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS%2080%20-%20Large%20print.pdf
> >
> > I find it quite readable even when printed at A4 size, let me know what
> > you
> > think?
> >
> > Steve G6ALU

> >
> > ----- Original Message -----
> > From: "LEE BAHR" <pulsarxp@...>
> > To: <mkars80@...>
> > Sent: Wednesday, June 24, 2009 11:37 PM
> > Subject: Re: [mkars80] Circuit Diagraam
> >
> > > Let's start with the photo file you sent out today. I find it no
> > > different then the one on the web site. I would be happy to pay someone
> > > to send me a readable schematic. Seems odd I can download schematics
> > all
> > > day long on the internet I can read for other electronics.
> > >
> > > Lee, w0vt
> > >
> > >
> > > ----- Original Message -----
> > > From: Nigel Gunn G8IFF/W8IFF
> > > To: mkars80@...
> > > Sent: Wednesday, June 24, 2009 5:26 PM
> > > Subject: Re: [mkars80] Circuit Diagraam
> > >
> > >
> > >
> > >
> > >
> > > Which file exactly, Lee?
> > > I've never had problems.
> > >
> > > LEE BAHR wrote:
> > > > Steve;
> > > >
> > > > It won't matter what the color is. Right now the resolution is so bad
> > > there are not enough pixels in the file to print something clear enough
> > to
> > > read. The blue even makes it worse. I'd like to hear from anyone who
> > can
> > > tell me they can read this file. I'm talking about the labels. The
> > wiring
> > > is OK, not great but readable. Anyone, can you see the labeling well
> > > enough to read it?
> > > >
> > > > Steve, whomever has the original drawing needs to recapture it with
> > > greater resolution and then distribute this new file. Nothing is going
> > to
> > > improve the resolution of this old one.
> > > >
> > > > Lee, w0vt
> > > >
> > > >

> > >
> > >
> > > [Non-text portions of this message have been removed]
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> > >
> > > Yahoo! Groups Links
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> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.339 / Virus Database: 270.12.90/2200 - Release Date:
> > 06/24/09
> > 12:49:00
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> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.375 / Virus Database: 270.12.91/2201 - Release Date: 06/25/09
> 06:22:00
>

975. Re: Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-26 00:50:31 UTC
From: jarnold144
Topic: 958 Message: 975

You are certainly not the only one who has and is having trouble reading the diagram; neither the original nor the newest one is readable. I must have spent 20 or 30 minutes trying to improve the diagram including the greyscale bit.

Hopefully someone will rise to the challenge, get rid of the pale non-photo blue, and enlarge the symbols and values to a usable size.

Cheers to all & 73, John WA6YSY in NW Washington state USA

--- In mkars80@yahoogroups.co.uk, "dawsonr45" <dawsonr45@...> wrote:
>
> Am I the only one who hss had difficulty reading the circuit. The components and connections are clear enouth but the component identy and values are illegible. I've printed it on photo paper and blown it up to A3 but no good. I can build it withour this but fault finding is going to be impossible.
>
> Richard
>

976. Re: [mkars80] Re: Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-26 05:42:08 UTC
From: Steve Drury
Topic: 958 Message: 976

John,
I'm sure the latest is OK, see:

http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS%2080%20-%20Large%20print.pdf

Steve G6ALU

----- Original Message -----
From: "jarnold144" <johna@...>
To: <mkars80@...>
Sent: Friday, June 26, 2009 1:50 AM
Subject: [mkars80] Re: Circuit Diagraam

> You are certainly not the only one who has and is having trouble reading
> the diagram; neither the original nor the newest one is readable. I must
> have spent 20 or 30 minutes trying to improve the diagram including the
> greyscale bit.
>
> Hopefully someone will rise to the challenge, get rid of the pale
> non-photo blue, and enlarge the symbols and values to a usable size.
>
> Cheers to all & 73, John WA6YSY in NW Washington state USA
>
>
> --- In mkars80@..., "dawsonr45" <dawsonr45@...> wrote:
>>
>> Am I the only one who hss had difficulty reading the circuit. The
>> components and connections are clear enouth but the component identy and
>> values are illegible. I've printed it on photo paper and blown it up to
>> A3 but no good. I can build it withour this but fault finding is going
>> to be impossible.
>>
>> Richard
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.12.91/2201 - Release Date: 06/25/09
06:22:00

977. Re: [mkars80] Re: Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-26 05:43:22 UTC
From: Steve Drury
Topic: 958 Message: 977

Shows you how tired I was!

Steve

----- Original Message -----
From: "panzerbeeb" <mike_mobbs@...>
To: <mkars80@...>
Sent: Friday, June 26, 2009 1:11 AM
Subject: [mkars80] Re: Circuit Diagraam

> Hi Steve,
>
> Is there any significance in the fact that the re-drawing date is
> Christmas Day 2009? HI
>
> Mike G8EEY
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> No problem, I should have done that months ago!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "LEE BAHR" <pulsarxp@...>
>> To: <mkars80@...>
>> Sent: Thursday, June 25, 2009 10:05 PM
>> Subject: Re: [mkars80] Circuit Diagraam
>>
>>
>> > Thanks, Steve. This printed out very nicely. Thanks for your efforts.
>> >
>> > Lee, w0vt
>> >
>> >
>> > ----- Original Message -----
>> > From: Steve Drury
>> > To: mkars80@...
>> > Sent: Thursday, June 25, 2009 3:38 PM
>> > Subject: Re: [mkars80] Circuit Diagraam
>> >
>> >
>> >
>> >
>> >

>> > Lee,
>> > In answer to your criticism I have generated a new schematic:
>> >
>> >
>> > http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS%2080%20-%20Large%20p
rint.pdf
>> >
>> > I find it quite readable even when printed at A4 size, let me know
>> > what
>> > you
>> > think?
>> >
>> > Steve G6ALU
>> >
>> > ----- Original Message -----
>> > From: "LEE BAHR" <pulsarxp@...>
>> > To: <mkars80@...>
>> > Sent: Wednesday, June 24, 2009 11:37 PM
>> > Subject: Re: [mkars80] Circuit Diagraam
>> >
>> > > Let's start with the photo file you sent out today. I find it no
>> > > different then the one on the web site. I would be happy to pay
>> > someone
>> > > to send me a readable schematic. Seems odd I can download schematics
>> > all
>> > > day long on the internet I can read for other electronics.
>> > >
>> > > Lee, w0vt
>> > >
>> > >
>> > > ----- Original Message -----
>> > > From: Nigel Gunn G8IFF/W8IFF
>> > > To: mkars80@...
>> > > Sent: Wednesday, June 24, 2009 5:26 PM
>> > > Subject: Re: [mkars80] Circuit Diagraam
>> > >
>> > >
>> > >
>> > >
>> > >
>> > >
>> > > Which file exactly, Lee?
>> > > I've never had problems.
>> > >
>> > > LEE BAHR wrote:
>> > > > Steve;
>> > > >
>> > > > It won't matter what the color is. Right now the resolution is so
>> > bad
>> > > > there are not enough pixels in the file to print something clear
>> > enough

>> > to
>> > > read. The blue even makes it worse. I'd like to hear from anyone who
>> > can
>> > > tell me they can read this file. I'm talking about the labels. The
>> > wiring
>> > > is OK, not great but readable. Anyone, can you see the labeling well
>> > > enough to read it?
>> > > >
>> > > > Steve, whomever has the original drawing needs to recapture it
>> > with
>> > > greater resolution and then distribute this new file. Nothing is
>> > going
>> > to
>> > > improve the resolution of this old one.
>> > > >
>> > > > Lee, w0vt
>> > >
>> > >
>> > >
>> > >
>> > > [Non-text portions of this message have been removed]
>> > >
>> > >
>> > >
>> > > ------------------------------------
>> > >
>> > > Yahoo! Groups Links
>> > >
>> > >
>> > >
>> >
>> > --
>> >
>> > No virus found in this incoming message.
>> > Checked by AVG - www.avg.com
>> > Version: 8.5.339 / Virus Database: 270.12.90/2200 - Release Date:
>> > 06/24/09
>> > 12:49:00
>> >
>> >
>> >
>> >
>> >
>> > [Non-text portions of this message have been removed]
>> >
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links

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>>
>> ---
>>
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.375 / Virus Database: 270.12.91/2201 - Release Date:
>> 06/25/09
>> 06:22:00
>>
>
>
>
>
> ----------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.12.91/2201 - Release Date: 06/25/09
06:22:00

978. Re: Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-26 06:54:12 UTC
From: Master Ice
Topic: 958 Message: 978

The diagram problem is an interesting example of how different PCs seem to respond to the same input.
I've never had a problem with any of the diagrams either in PDF or JPG format.
However as was rightly observed, particular browser software often plays about with how the image is presented no matter what format the data is in.
Personally I have long used firefox in preference to internet explorer because of it's image and file handling capabilities. However I often find that people utilise their software in the default mode when often a slight tweeking via the options offered can make things far more usable.

Anyway no matter what I'd like to thank Steve for the speed of the amazing support he offers for what is a quite amazing product.

Hopefully once my wedding is out of the way I may actually get a chance to finally build my kit and actually join the operating MKARS80 ranks world wide as opposed to just owning the kit ! :-)

Slim Haines G4IPZ

979. Re: Circuit Diagraam

Yahoo group: mkars80
Date: 2009-06-26 18:08:43 UTC
From: jarnold144
Topic: 958 Message: 979

Hi Steve etal,

Yes latest diagram is much better; I can actually read the values etc. Thanks for the redo. Now I'd better get with it and build the rig hi, hi.

73, John WA6YSY

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> John,
> I'm sure the latest is OK, see:
>
> http://myweb.tiscali.co.uk/radiokits/radio-related/MKARS80/MKARS%2080%20-%20Large%20print.pdf
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "jarnold144" <johna@...>
> To: <mkars80@...>
> Sent: Friday, June 26, 2009 1:50 AM
> Subject: [mkars80] Re: Circuit Diagraam
>
>
> > You are certainly not the only one who has and is having trouble reading
> > the diagram; neither the original nor the newest one is readable. I must
> > have spent 20 or 30 minutes trying to improve the diagram including the
> > greyscale bit.
> >
> > Hopefully someone will rise to the challenge, get rid of the pale
> > non-photo blue, and enlarge the symbols and values to a usable size.
> >
> > Cheers to all & 73, John WA6YSY in NW Washington state USA
> >
> >
> > --- In mkars80@..., "dawsonr45" <dawsonr45@> wrote:
> >>
> >> Am I the only one who hss had difficulty reading the circuit. The
> >> components and connections are clear enouth but the component identy and
> >> values are illegible. I've printed it on photo paper and blown it up to
> >> A3 but no good. I can build it withour this but fault finding is going
> >> to be impossible.
> >>
> >> Richard
> >>
> >

> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
>
> --
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.375 / Virus Database: 270.12.91/2201 - Release Date: 06/25/09
> 06:22:00
>

980. Circui Diagram

Yahoo group: mkars80
Date: 2009-06-29 17:28:21 UTC
From: dawsonr45
Topic: 980 Message: 980

Yes, much better now, but only just fits on an A4. I'm intrigued by the date on which it was/will be redrawn.
Richard m0drb in sunny Dorset

981. "Digipot"

Yahoo group: mkars80
Date: 2009-06-29 20:23:08 UTC
From: John
Topic: 981 Message: 981

For those who are interested in a "Digital" alternative to a 10 turn pot for producing a varactor tuning voltage it looks as if the next issue of SPRAT may be worth looking at!

I know no more except that it may be just what I have been thinking about, we will see. [:)]

73,

John.

[Non-text portions of this message have been removed]

982. Help!

Yahoo group: mkars80
Date: 2009-06-30 09:11:09 UTC
From: Jack
Topic: 982 Message: 982

Finished the MKARS80 PCB last night, got the reciever aligned and its working really well.

But...

Moved onto the transmitter set up. I should set R2 so the current drawn is 50mA higher than recieve. I have 120mA on RX, and the lowest I can achieve on TX is 250mA.

Also I can turn R59 and C103 any way I like and there is no carrier on TX. Just seems to work as it should. I'm not complaining, but that wasnt expected :)

TX adio is bit distorded when I listen on another reciver, but that will be proved when a more distance reciever is used.

Anyone got any comments which may help me?

Very impressed with the kit so far. Well made and good value.
73
Jack
VK2CJC / MM0AXL

983. mkars80 and the howes dcs2

Yahoo group: mkars80
Date: 2009-06-30 12:17:28 UTC
From: mark2w0jmk
Topic: 983 Message: 983

hi i have a howes dcs2 which i presume is the board to drive a signal meter for the howes range of kits would anyone on here think that this could be incorporated into or as an external unit for a signal meter for the mkars80
mark 2w0jmk

984. Re: Help!

Yahoo group: mkars80
Date: 2009-06-30 12:39:15 UTC
From: Steve drury
Topic: 982 Message: 984

Jack,
I think you have misunderstood my instructions, the 50mA increase is during transmit.

Set your meter to read current and put the radio into transmit mode - the best way to do this is by plugging a mono jack (no wire attached) into the microphone socket. The current will read about 250mA, now adjust R2 SLOWLY until the current rises by 50mA. That's all there is to it!

Now set up R59 and C103 as per the instructions and you will find the distortion will disapear. Make sure the BFO frequency has been set correctly as this will also affect the transmit audio quality.

Best of luck.

Steve G6ALU

--- In mkars80@..., "Jack" <vk2cjc@...> wrote:
>
> Finished the MKARS80 PCB last night, got the reciever aligned and its working really well.
>
> But...
>
> Moved onto the transmitter set up. I should set R2 so the current drawn is 50mA higher than recieve. I have 120mA on RX, and the lowest I can achieve on TX is 250mA.
>
> Also I can turn R59 and C103 any way I like and there is no carrier on TX. Just seems to work as it should. I'm not complaining, but that wasnt expected :)
>
> TX adio is bit distorded when I listen on another reciver, but that will be proved when a more distance reciever is used.
>
> Anyone got any comments which may help me?
>
> Very impressed with the kit so far. Well made and good value.
> 73
> Jack
> VK2CJC / MM0AXL
>

985. Re: [mkars80] Re: Help!

Yahoo group: mkars80
Date: 2009-06-30 20:16:48 UTC
From: Jack
Topic: 982 Message: 985

Now that makes MUCH more sense :o)

I'll try that when i get home from work. I'm sure it'll be fine then. I had a brief on air contact last night and the verdict was "crystal clear", but only if I spoke loudly. Correct R2 setting will help that I have no doubt.

Thanks for your help.

Jack VK2CJC / MM0AXL
Mid North Coast Amateur Radio Group
www.mncarg.org

----- Original Message -----
From: Steve drury
To: mkars80@...
Sent: Tuesday, June 30, 2009 10:39 PM
Subject: [mkars80] Re: Help!

Jack,
I think you have misunderstood my instructions, the 50mA increase is during transmit.

Set your meter to read current and put the radio into transmit mode - the best way to do this is by plugging a mono jack (no wire attached) into the microphone socket. The current will read about 250mA, now adjust R2 SLOWLY until the current rises by 50mA. That's all there is to it!

Now set up R59 and C103 as per the instructions and you will find the distortion will disapear. Make sure the BFO frequency has been set correctly as this will also affect the transmit audio quality.

Best of luck.

Steve G6ALU

--- In mkars80@..., "Jack" <vk2cjc@...> wrote:
>
> Finished the MKARS80 PCB last night, got the reciever aligned and its working really well.
>
> But...
>
> Moved onto the transmitter set up. I should set R2 so the current drawn is 50mA higher than recieve. I have 120mA on RX, and the lowest I can achieve on TX is 250mA.
>
> Also I can turn R59 and C103 any way I like and there is no carrier on TX. Just seems to work as it should. I'm not complaining, but that wasnt expected :)
>

> TX adio is bit distorded when I listen on another reciver, but that will be proved when a more distance reciever is used.
>
> Anyone got any comments which may help me?
>
> Very impressed with the kit so far. Well made and good value.
> 73
> Jack
> VK2CJC / MM0AXL
>

[Non-text portions of this message have been removed]

986. Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-07-06 21:53:10 UTC
From: m0heu
Topic: 953 Message: 986

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> OK, we did have a net this evening:
>
> G7HEU Steve - not on a MKARS80!
> G1IUG Colin
> M1EEL Mick

Well my MKARS80 is now operational and working well. May I suggest another sked for this Sunday 12th July at 09:30? This time I shall leave the TS-520S off so it should be an even match! I will ask the moderators of this group to let me know if further sked requests are off topic.

I want to add that I've had a great deal of enjoyment already from building this excellent kit and would like to thank Steve / G6ALU for making it available. If anyone is unsure about buying one I can recommend the purchase.

Steve G7HEU.

987. Re: [mkars80] Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-07-07 05:48:56 UTC
From: Steve Drury
Topic: 953 Message: 987

No its not off topic!

OK for another sked at 09:30 british summer time this Sunday the 12th, I
will be at MK museum again using call GB2MKM.

Thats 9:30 in the morning, 3.690MHz ? QRM - this may be 10kHz or more away.

Steve G6ALU

----- Original Message -----
From: "m0heu" <hawes@...>
To: <mkars80@...>
Sent: Monday, July 06, 2009 10:53 PM
Subject: [mkars80] Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/-
QRM

> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> OK, we did have a net this evening:
>>
>> G7HEU Steve - not on a MKARS80!
>> G1IUG Colin
>> M1EEL Mick
>
>
>
> Well my MKARS80 is now operational and working well. May I suggest another
> sked for this Sunday 12th July at 09:30? This time I shall leave the
> TS-520S off so it should be an even match! I will ask the moderators of
> this group to let me know if further sked requests are off topic.
>
> I want to add that I've had a great deal of enjoyment already from
> building this excellent kit and would like to thank Steve / G6ALU for
> making it available. If anyone is unsure about buying one I can recommend
> the purchase.
>
> Steve G7HEU.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.13.5/2220 - Release Date: 07/05/09
17:54:00

988. An interview with Steve about the MKARS80 transceiver

Yahoo group: mkars80
Date: 2009-07-07 18:57:51 UTC
From: Martin Butler
Topic: 988 Message: 988

Hi Guys

Last week I managed to do an interview with Steve about the MKARS80 transceiver for the ICQPODCAST.

If you would like to hear this interview, please follow the link below for downloading.

I hope you all enjoy.

73's Martin

Welcome to the ICQ Podcast newsletter - the newsletter of the premier online Amateur / Ham radio podcast.

New Podcast Episode

We are pleased the Series Two Episode Fourteen issue of the ICQ Podcast, SSB KIT (MKARS80) Revisited, is available for download. To download your copy, visit

http://icqpodcast.com/index.php?option=com_content&task=view&id=411&Itemid=1

To access the show notes, visit

http://icqpodcast.com/index.php?option=com_content&task=view&id=412&Itemid=1

New Website Feature

As a registered user, you can now comment about each news story. To make you comment, login to the ICQ Podcast website, select a news story and let us and you fellow Amateurs know your views.

Latest Amateur Radio News

WE5I on 6-meter AM
OSCAR-7 YouTube video
UK Amateur licences on the rise
UK Government overlooks RAYNET
RAYNET part of 2 Signal Brigade exercise
Benin DXpedition
Trans-Atlantic beacon
Regulator considers 434 MHz camera control
FM radio used in propaganda war
The Secret Life of the Radio
See the ISS in daylight!
Ham radio's to meet emissions standards

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RSGB instructor for Foundation, Intermediate and Advance courses
Lead Instructor for Sutton and Cheam Amateur Radio Society
Technical Editor of ICQ Podcast http://www.icqpodcast.com
Member of GQRP, membership number: 11451 http://www.gqrp.com

[Non-text portions of this message have been removed]

989. Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-07-12 09:31:30 UTC
From: m0heu
Topic: 953 Message: 989

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> will be at MK museum again using call GB2MKM.
>
> Thats 9:30 in the morning, 3.690MHz ± QRM - this may be 10kHz or more away.
>
> Steve G6ALU

I worked Steve this morning - despite a couple of local difficulties. Not the world's greatest DX contact at about 60 miles but I was pleased with it :-)

Local difficulties? Well firstly my remote mounted auto tuner 'locked' twice and it took a while for me to realise what was happening and then to traipse to the end of the garden to reset it. Twice. I presume it was a coincidence since the same arrangement is used here with other QRP rigs.

Secondly, (and other new builders may find this useful), there was deep fading of signals - so much so that for a moment I thought my MKARS80 had a problem. In fact I think it is fine but was revealing my lack of familiarity with an AGC free receiver. Switching between the MKARS80 and my TS-520S signals were of similar readability, good or bad, it's just that the very weak were also very quiet on the MKARS80. I realise that is to be expected but the effect was more pronounced than I had anticipated.

All good fun!

Steve G7HEU.

990. Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-07-12 16:20:59 UTC
From: John
Topic: 953 Message: 990

Nothing heard in West Yorkshire I'm afraid, aerial not too good at the moment [:(]

What frequency did you actually end up on?

73, John.

--- In mkars80@..., "m0heu" <hawes@...> wrote:
>
> --- In mkars80@yahoogroups.co.uk, "Steve Drury" g6alu@ wrote:
> >
> > will be at MK museum again using call GB2MKM.
> >
> > Thats 9:30 in the morning, 3.690MHz ± QRM - this may be 10kHz or more away.
> >
> > Steve G6ALU
>
> I worked Steve this morning - despite a couple of local difficulties. Not the world's greatest DX contact at about 60 miles but I was pleased with it :-)
>
> Local difficulties? Well firstly my remote mounted auto tuner 'locked' twice and it took a while for me to realise what was happening and then to traipse to the end of the garden to reset it. Twice. I presume it was a coincidence since the same arrangement is used here with other QRP rigs.
>
> Secondly, (and other new builders may find this useful), there was deep fading of signals - so much so that for a moment I thought my MKARS80 had a problem. In fact I think it is fine but was revealing my lack of familiarity with an AGC free receiver. Switching between the MKARS80 and my TS-520S signals were of similar readability, good or bad, it's just that the very weak were also very quiet on the MKARS80. I realise that is to be expected but the effect was more pronounced than I had anticipated.
>
> All good fun!
>
> Steve G7HEU.
>

[Non-text portions of this message have been removed]

991. Today's sked

Yahoo group: mkars80
Date: 2009-07-12 19:23:23 UTC
From: Steve Drury
Topic: 991 Message: 991

Pleased to say today's sked was successful with 8 MKARS80s in total:

Me G6ALU Milton Keynes
Alan G4MDR Newport Pagnell (Temporary 50ft long wire)
David M3LSM Leeds
Glyn G3ZSV Plymouth
Adrian G7HSA Ludlow
Steve G7 HEU Swindon
Alan M1CXK Dartford

I also heard faintly Mick M1EEL in QSO with Alan M1CXK.

As can be expected signals weren't all that big but most of us could hear / work each other OK. I plan on having a regular sked on 3.690MHz at 9:30 on a Sunday morning - I will advise regarding next weeks though as I will probably be at Roade car boot sale - perhaps I can do it from there!

I think it was Alan M1CXK who suggested we should call (and listen) on 3.690, I.E. make it our preferred frequency - after all its the centre of QRP activity.

Steve G6ALU

[Non-text portions of this message have been removed]

992. Potential obscure problem now finally identified and corrected !

Yahoo group: mkars80
Date: 2009-07-12 21:29:04 UTC
From: g3oth
Topic: 992 Message: 992

Since building my MKARS80 last Christmas and using it successfully albeit intermittently mainly on receive since then, it appeared to behave impeccably each time it was powered up. However in recent weeks I noticed it had developed an AF related problem insomuch that although everything displayed ok at power up, no audio or amplifier noise could be discerned, sometimes for up to 2 minutes on occasions, after initial switch on. Furthermore this recovery time seemed to be directly related to the period of time which had elapsed between successive switch ons.
Various reasons for this went through my mind, a dry joint perhaps, LM386 or component ageing or instability of some sort, before I was finally prompted to remove the lid to investigate and probe the DC voltages on the LM386 immediately after switch on whilst it was in this "sleep" mode.
Measurement of these DC voltages indicated that with 12.00 volts on pin 6 (supply), pin 5 (output) was sitting at 11.43 volts and pin 3 (input) was sitting at 0.25 volts. No wonder the RX sounded dead. When finally audio became discernable the voltage on pin 5 had dropped to 9.25 volts and that at pin 3 had dropped to 0.16 volts. Further monitoring indicated that these voltages gradually fell such that after about 15 minutes they were as expected, that is approx 6 volts on pin 5 and 0 volts on pin 3.
Examination of the internal circuit diagram of the LM386 revealed that a 50 K resistor is present between pin 3 and ground, thus it was deduced that for 0.25 volts to appear on pin 3 a current of 5 uA must be flowing through this resistor, and as in this condition the Darlington connected pnp non inverting input transistors inside the LM386 are cut off, this could only have come via the junction of Q3 and R28. As it seemed unlikely that Q3 could be the source of this current it was reasoned that it must be flowing via R28 as leakage current through C35 from the positive potential at the collector of Q6.
A check on the specification of maximum leakage current in the Maplin Catalogue for a similar size of electrolytic capacitor for C35 (1uf @ 100v as supplied by Steve in my case) revealed that this could be as high as a crazy 18 uA.
Whilst the applied voltage in the MKARS80 is much lower, it was reasoned that a starting leakage current of 5 uA falling exponentionally over a period of several minutes to less than 1 uA was not beyond the realms of possibility, and would explain my observations. Even a 1 uA leakage current could result in a potential of 50 mV at pin 3 which translates into an 1 volt output offset or 7 volts DC at pin 5.
As a result of these findings I have now removed the suspect standard C35 aluminium electrolytic capacitor and replaced it with a 1 uF @ 35v tantalum device and am now always measuring almost zero DC offset on pin 3 and 6.4 volts on pin 5 at switch on.
Should any other users be confronted with a similar experience I would recommend this simple substition.
Regards Charles G3OTH

993. Re: [mkars80] Potential obscure problem now finally identified and corrected !

Yahoo group: mkars80
Date: 2009-07-13 07:54:00 UTC
From: Steve Drury
Topic: 992 Message: 993

Charles,

A good bit of detective work. I know of one other that has audio problems but I believe this is intermittent when running so I suspect it is due to a dry joint or similar.

A quick look suggests a 0.1uF ceramic might be as good as the load resistance appears to be around 50K, I will make this change if I hear of a widespread problem. I'm not sure why I went for a high value in the first place.

Regards,
Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, July 12, 2009 10:29 PM
Subject: [mkars80] Potential obscure problem now finally identified and corrected !

> Since building my MKARS80 last Christmas and using it successfully albeit
> intermittently mainly on receive since then, it appeared to behave
> impeccably each time it was powered up. However in recent weeks I noticed
> it had developed an AF related problem insomuch that although everything
> displayed ok at power up, no audio or amplifier noise could be discerned,
> sometimes for up to 2 minutes on occasions, after initial switch on.
> Furthermore this recovery time seemed to be directly related to the period
> of time which had elapsed between successive switch ons.
> Various reasons for this went through my mind, a dry joint perhaps, LM386
> or component ageing or instability of some sort, before I was finally
> prompted to remove the lid to investigate and probe the DC voltages on the
> LM386 immediately after switch on whilst it was in this "sleep" mode.
> Measurement of these DC voltages indicated that with 12.00 volts on pin 6
> (supply), pin 5 (output) was sitting at 11.43 volts and pin 3 (input) was
> sitting at 0.25 volts. No wonder the RX sounded dead. When finally audio
> became discernable the voltage on pin 5 had dropped to 9.25 volts and that
> at pin 3 had dropped to 0.16 volts. Further monitoring indicated that
> these voltages gradually fell such that after about 15 minutes they were
> as expected, that is approx 6 volts on pin 5 and 0 volts on pin 3.
> Examination of the internal circuit diagram of the LM386 revealed that a
> 50 K resistor is present between pin 3 and ground, thus it was deduced
> that for 0.25 volts to appear on pin 3 a current of 5 uA must be flowing
> through this resistor, and as in this condition the Darlington connected
> pnp non inverting input transistors inside the LM386 are cut off, this

> could only have come via the junction of Q3 and R28. As it seemed unlikely
> that Q3 could be the source of this current it was reasoned that it must
> be flowing via R28 as leakage current through C35 from the positive
> potential at the collector of Q6.
> A check on the specification of maximum leakage current in the Maplin
> Catalogue for a similar size of electrolytic capacitor for C35 (1uf @ 100v
> as supplied by Steve in my case) revealed that this could be as high as a
> crazy 18 uA.
> Whilst the applied voltage in the MKARS80 is much lower, it was reasoned
> that a starting leakage current of 5 uA falling exponentionally over a
> period of several minutes to less than 1 uA was not beyond the realms of
> possibility, and would explain my observations. Even a 1 uA leakage
> current could result in a potential of 50 mV at pin 3 which translates
> into an 1 volt output offset or 7 volts DC at pin 5.
> As a result of these findings I have now removed the suspect standard C35
> aluminium electrolytic capacitor and replaced it with a 1 uF @ 35v
> tantalum device and am now always measuring almost zero DC offset on pin 3
> and 6.4 volts on pin 5 at switch on.
> Should any other users be confronted with a similar experience I would
> recommend this simple substition.
> Regards Charles G3OTH
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.13.12/2233 - Release Date: 07/12/09
08:20:00

994. Re: Potential obscure problem now finally identified and corrected !

Yahoo group: mkars80
Date: 2009-07-13 13:07:47 UTC
From: g3oth
Topic: 992 Message: 994

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Charles,
>
> A good bit of detective work. I know of one other that has audio problems
> but I believe this is intermittent when running so I suspect it is due to a
> dry joint or similar.
>
> A quick look suggests a 0.1uF ceramic might be as good as the load
> resistance appears to be around 50K, I will make this change if I hear of a
> widespread problem. I'm not sure why I went for a high value in the first
> place.
>
> Regards,
> Steve G6ALU

FB Steve

Yes, since the 3 dB cut off frquency at present using 1 uF and 10K for C35 and R28 is about 15 HZ, I dont think the audio response would be compromised significantly by going up to 150 Hz and using a 0.1 uF ceramic.
Having thought about the problem further I have since realised I could have also confirmed directly by calculation the presence and magnitude of capacitor leakage current by measuring the pd across R28.
Too late now, as I dont appear to have any with the Tantalum Bead substitution Hi Hi.

73 agn de Charles G3OTH

995. Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-07-13 16:32:58 UTC
From: David
Topic: 953 Message: 995

No problems contacting fom Leeds (West Yorkshire). Nice to speak to you Steve brief as it was.

73s
David
M3LSM
Leeds - West Yorks

--- In mkars80@yahoogroups.co.uk, "John" <john.g4gcl@...> wrote:
>
>
> Nothing heard in West Yorkshire I'm afraid, aerial not too good at the
> moment [:(]
>
> What frequency did you actually end up on?
>
> 73, John.
>
>
> --- In mkars80@..., "m0heu" <hawes@> wrote:
> >
> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" g6alu@ wrote:
> > >
> > > will be at MK museum again using call GB2MKM.
> > >
> > > Thats 9:30 in the morning, 3.690MHz ± QRM - this may be 10kHz or
> more away.
> > >
> > > Steve G6ALU
> >
> > I worked Steve this morning - despite a couple of local difficulties.
> Not the world's greatest DX contact at about 60 miles but I was pleased
> with it :-)
> >
> > Local difficulties? Well firstly my remote mounted auto tuner 'locked'
> twice and it took a while for me to realise what was happening and then
> to traipse to the end of the garden to reset it. Twice. I presume it was
> a coincidence since the same arrangement is used here with other QRP
> rigs.
> >
> > Secondly, (and other new builders may find this useful), there was
> deep fading of signals - so much so that for a moment I thought my
> MKARS80 had a problem. In fact I think it is fine but was revealing my
> lack of familiarity with an AGC free receiver. Switching between the
> MKARS80 and my TS-520S signals were of similar readability, good or bad,

> it's just that the very weak were also very quiet on the MKARS80. I
> realise that is to be expected but the effect was more pronounced than I
> had anticipated.
> >
> > All good fun!
> >
> > Steve G7HEU.
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

996. Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-07-13 19:13:43 UTC
From: John
Topic: 953 Message: 996

Interesting, probably my bit of wire is the problem! [:(]

Does anyone know what frequency they ended up on?

73, John.

--- In mkars80@yahoogroups.co.uk, "David" <theshroomary@...> wrote:
>
> No problems contacting fom Leeds (West Yorkshire). Nice to speak to
you Steve brief as it was.
>
> 73s
> David
> M3LSM
> Leeds - West Yorks
>
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> > >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

[Non-text portions of this message have been removed]

997. Re: [mkars80] Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-07-13 19:29:28 UTC
From: Steve Drury
Topic: 953 Message: 997

Frequency was 3.690MHz which I believe is the main QRP frequency.

Steve G6ALU

----- Original Message -----
From: "David" <theshroomary@...>
To: <mkars80@...>
Sent: Monday, July 13, 2009 5:32 PM
Subject: [mkars80] Re: MKARS80 Sked 9:30pm Sunday 21st June 3.690 MHz +/- QRM

No problems contacting fom Leeds (West Yorkshire). Nice to speak to you Steve brief as it was.

73s
David
M3LSM
Leeds - West Yorks

--- In mkars80@..., "John" <john.g4gcl@...> wrote:
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> > Steve G7HEU.
> >
>
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>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.13.12/2235 - Release Date: 07/13/09
05:56:00

998. Re: An interview with Steve about the MKARS80 transceiver

Yahoo group: mkars80
Date: 2009-07-19 11:43:32 UTC
From: g3oth
Topic: 988 Message: 998

This morning I have just been listening to the podcast that Martin mentioned.
The interview with Steve was very interesting and I was pleasantly surprised to hear that there are now over 700 kits in existence distributed worldwide.
Congratulations Steve and again many thanks once again to you, your XYL Val and all those involved at MKARS for your efforts to date.
I put out a call on 3690 KHz this morning at 9.30 BST but heard no one, so I think no MKARS members must have been around today.
Yesterday I worked about ten stations up and down the country from GM to the South coast all of whom complimented me on my audio quality, so am sure I could have worked into Milton Keynes had anyone been on from there.
I will try again next weekend if anyone is interested in working me up here in Northumberland.
73 de Charles G3OTH

--- In mkars80@..., "Martin Butler" <martin@...> wrote:
>
>
> Hi Guys
>
> Last week I managed to do an interview with Steve about the MKARS80
> transceiver for the ICQPODCAST.
>
> If you would like to hear this interview, please follow the link below for
> downloading.
>
> I hope you all enjoy.
>
> 73's Martin
>
>
> Welcome to the ICQ Podcast newsletter - the newsletter of the premier online
> Amateur / Ham radio podcast.
>
> New Podcast Episode
>
> We are pleased the Series Two Episode Fourteen issue of the ICQ Podcast, SSB
> KIT (MKARS80) Revisited, is available for download. To download your copy,
> visit
>
> http://icqpodcast.com/index.php?option=com_content&task=view&id=411&Itemid=1
>
> To access the show notes, visit
>
> http://icqpodcast.com/index.php?option=com_content&task=view&id=412&Itemid=1
>

> New Website Feature
>
> As a registered user, you can now comment about each news story. To make you
> comment, login to the ICQ Podcast website, select a news story and let us
> and you fellow Amateurs know your views.
>
> Latest Amateur Radio News
>
> WE5I on 6-meter AM
> OSCAR-7 YouTube video
> UK Amateur licences on the rise
> UK Government overlooks RAYNET
> RAYNET part of 2 Signal Brigade exercise
> Benin DXpedition
> Trans-Atlantic beacon
> Regulator considers 434 MHz camera control
> FM radio used in propaganda war
> The Secret Life of the Radio
> See the ISS in daylight!
> Ham radio's to meet emissions standards
>
>
>
>
> ---
> ---
> Martin Butler
> Mobile: +44 7973 552878
> Amateur Radio Call Sign: M1MRB
> QTH: Carshalton, Surrey. UK (IO91VJ)
> RSGB instructor for Foundation, Intermediate and Advance courses
> Lead Instructor for Sutton and Cheam Amateur Radio Society
> Technical Editor of ICQ Podcast http://www.icqpodcast.com
> Member of GQRP, membership number: 11451 http://www.gqrp.com
>
>
>
>
> [Non-text portions of this message have been removed]
>

999. Re: [mkars80] Re: An interview with Steve about the MKARS80 transceiver

Yahoo group: mkars80
Date: 2009-07-19 13:02:50 UTC
From: Steve Drury
Topic: 988 Message: 999

Hello Charles,

There was every intention of holding a net this morning; we attended the Roade hamfest and was there by 8:30 with an antennae up. At 8:45 the skies opened and we had to move indoors so sorry to all that were listening out for me.

I will try again next Sunday at the same time but please feel free to hold a net if I'm not there!

Regards,
Steve G6ALU

Why not hold a net even if I'm abscent
----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, July 19, 2009 12:43 PM
Subject: [mkars80] Re: An interview with Steve about the MKARS80 transceiver

> This morning I have just been listening to the podcast that Martin
> mentioned.
> The interview with Steve was very interesting and I was pleasantly
> surprised to hear that there are now over 700 kits in existence
> distributed worldwide.
> Congratulations Steve and again many thanks once again to you, your XYL
> Val and all those involved at MKARS for your efforts to date.
> I put out a call on 3690 KHz this morning at 9.30 BST but heard no one, so
> I think no MKARS members must have been around today.
> Yesterday I worked about ten stations up and down the country from GM to
> the South coast all of whom complimented me on my audio quality, so am
> sure I could have worked into Milton Keynes had anyone been on from there.
> I will try again next weekend if anyone is interested in working me up
> here in Northumberland.
> 73 de Charles G3OTH
>
> --- In mkars80@..., "Martin Butler" <martin@...> wrote:
>>
>>
>> Hi Guys
>>
>> Last week I managed to do an interview with Steve about the MKARS80
>> transceiver for the ICQPODCAST.
>>
>> If you would like to hear this interview, please follow the link below
>> for

>> downloading.
>>
>> I hope you all enjoy.
>>
>> 73's Martin
>>
>>
>> Welcome to the ICQ Podcast newsletter - the newsletter of the premier
>> online
>> Amateur / Ham radio podcast.
>>
>> New Podcast Episode
>>
>> We are pleased the Series Two Episode Fourteen issue of the ICQ Podcast,
>> SSB
>> KIT (MKARS80) Revisited, is available for download. To download your
>> copy,
>> visit
>>
>> http://icqpodcast.com/index.php?option=com_content&task=view&id=411&Itemid=1
>>
>> To access the show notes, visit
>>
>> http://icqpodcast.com/index.php?option=com_content&task=view&id=412&Itemid=1
>>
>> New Website Feature
>>
>> As a registered user, you can now comment about each news story. To make
>> you
>> comment, login to the ICQ Podcast website, select a news story and let us
>> and you fellow Amateurs know your views.
>>
>> Latest Amateur Radio News
>>
>> WE5I on 6-meter AM
>> OSCAR-7 YouTube video
>> UK Amateur licences on the rise
>> UK Government overlooks RAYNET
>> RAYNET part of 2 Signal Brigade exercise
>> Benin DXpedition
>> Trans-Atlantic beacon
>> Regulator considers 434 MHz camera control
>> FM radio used in propaganda war
>> The Secret Life of the Radio
>> See the ISS in daylight!
>> Ham radio's to meet emissions standards
>>
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>>

>> --
>> -----------------
>> Martin Butler
>> Mobile: +44 7973 552878
>> Amateur Radio Call Sign: M1MRB
>> QTH: Carshalton, Surrey. UK (IO91VJ)
>> RSGB instructor for Foundation, Intermediate and Advance courses
>> Lead Instructor for Sutton and Cheam Amateur Radio Society
>> Technical Editor of ICQ Podcast http://www.icqpodcast.com
>> Member of GQRP, membership number: 11451 http://www.gqrp.com
>>
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>> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.20/2248 - Release Date: 07/19/09
05:57:00

1000. Sunday morning call

Yahoo group: mkars80
Date: 2009-07-19 16:07:27 UTC
From: allen
Topic: 1000 Message: 1000

I worked M1EEL on 3.690mhz from 0930 hrs Until 09.50.
Sorry to say we did not hear any other Stations ,although we gave several cq calls.we monitor this freq from time to time.always worth giving a call.

Allen
M1CXK

1001. OOB firmware modification

Yahoo group: mkars80
Date: 2009-07-21 14:08:21 UTC
From: Matthew Robinson
Topic: 1001 Message: 1001

Hi all,

I've finally got around to adding my Out of Band modification to the MKARS firmware. With my modified code (available in the files section) the MKARS shows an OOB warning when the frequency is set below 3.5MHz and above 3.8MHz. As I'm from Australia it also shows OOB between 3.7 and 3.776MHz. The Australian 'hole' is clearly commented in the assembler code, just remove it and recompile to remove it.

If I get a chance I will look to see if I can get the MKARS to show band plan information.

HTH,

Matt
VK6MR

1003. Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-07-24 08:14:22 UTC
From: absorbentgnome
Topic: 1003 Message: 1003

Hi everyone

I was a little disappointed with the amount of hiss coming from the LM386 on the MKARS80 kit. An anti-hiss mod sorted out the problem - solder a 10k and 10nF capacitor in series between pin 8 of the LM386 and the negative lead of C2 (the speaker output), This significantly reduces the hiss :)

I read about a possible AGC mod for the receiver - can anyone post the files or email them to me?

My transceiver is boxed up now and I am very pleased with it - thanks Steve!

Thanks
Dan 2W0UZO

1004. Re: [mkars80] Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-07-24 11:52:06 UTC
From: g6alu@tiscali.co.uk
Topic: 1003 Message: 1004

Dan,

I've not noticed hiss to be objectionable - are you using headphones I wonder?

Although I guess some HF roll off doesn't go amiss.....

Steve
G6ALU

>----Original Message----
>From: absorbentgnome@...
>Date: 24/07/2009 9:14
>To: <mkars80@...>
>Subj: [mkars80] Anti hiss mod for MKARS80 audio amp
>
>Hi everyone
>
>I was a little disappointed with the amount of hiss coming from the LM386 on the MKARS80 kit. An anti-hiss mod sorted out the problem - solder a 10k and 10nF capacitor in series between pin 8 of the LM386 and the negative lead of C2 (the speaker output), This significantly reduces the hiss :)
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>I read about a possible AGC mod for the receiver - can anyone post the files or email them to me?
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>
>Thanks
>Dan 2W0UZO
>
>
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>
>Yahoo! Groups Links
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>

Stay safe online with Tiscali Security Centre - http://www.tiscali.co.uk/security
----

1005. Fault finding

Yahoo group: mkars80
Date: 2009-07-24 13:51:54 UTC
From: penketh5@btinternet.com
Topic: 1005 Message: 1005

Hi, I assembled the kit a couple of months ago. When first powered up I found the audio to be very low, and just a few spurious signals heard. No amateur signals at all.
Steve suggested that the coils may not be soldered.
I have now returned to the kit after doing jobs in and around the house.
I have checked all the coils and I feel confident the they are correct and soldered. I suppose that falls into the Famous Last Word senario.
All the voltages seem to be ok. So as it stands I still have very low audio and the spurious signals.

Can anyone help or suggest what might or not be happening.

Thanks, Norm

1006. Re: [mkars80] Fault finding

Yahoo group: mkars80
Date: 2009-07-24 14:16:29 UTC
From: Steve Drury
Topic: 1005 Message: 1006

Norm,

Try setting up the transmit side - BFO and TX bias, check to see if you get any RF power out. If so the problem is in one of the receive stages, if not then its in a common stage - mixer, filter etc.

Steve G6ALU

----- Original Message -----
From: <penketh5@...>
To: <mkars80@...>
Sent: Friday, July 24, 2009 2:51 PM
Subject: [mkars80] Fault finding

> Hi, I assembled the kit a couple of months ago. When first powered up I
> found the audio to be very low, and just a few spurious signals heard. No
> amateur signals at all.
> Steve suggested that the coils may not be soldered.
> I have now returned to the kit after doing jobs in and around the house.
> I have checked all the coils and I feel confident the they are correct and
> soldered. I suppose that falls into the Famous Last Word senario.
> All the voltages seem to be ok. So as it stands I still have very low
> audio and the spurious signals.
>
> Can anyone help or suggest what might or not be happening.
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> Thanks, Norm
>
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> ------------------------------------
>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.27/2258 - Release Date: 07/24/09 05:58:00

1007. 9 mhz if

Yahoo group: mkars80
Date: 2009-07-27 11:03:07 UTC
From: ter753
Topic: 1007 Message: 1007

Has anyone tried this?, it would allow 80 and 20 meters using a 5-5.5 mhz vfo.73s, terry.

1008. Re: Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-07-27 12:38:57 UTC
From: absorbentgnome
Topic: 1003 Message: 1008

The hiss is definitely from the audio amp and nothing else. The problem also affects the CW adapter kit, although it does not seem quite as bad as the radio kit in my case. Probably some of the problem is down to component variation.

The radio kit is now boxed up, with an internal speaker and set of batteries.

Upon completion of the CW adapter kit, it was realised that perhaps the better combination would have been to squeeze the CW kit into the radio box and have another box for batteries and a speaker. Oh well - gotta figure out a way to nicely route power from the radio to the cw kit - the other way around for which it was designed! (doh)

Dan.

--- In mkars80@yahoogroups.co.uk, "g6alu@..." <g6alu@...> wrote:
>
> Dan,
>
> I've not noticed hiss to be objectionable - are you using headphones I
> wonder?
>
> Although I guess some HF roll off doesn't go amiss.....
>
> Steve
> G6ALU
>
> >----Original Message----
> >From: absorbentgnome@...
> >Date: 24/07/2009 9:14
> >To: <mkars80@...>
> >Subj: [mkars80] Anti hiss mod for MKARS80 audio amp
> >
> >Hi everyone
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> >I was a little disappointed with the amount of hiss coming from the
> LM386 on the MKARS80 kit. An anti-hiss mod sorted out the problem -
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> >Dan 2W0UZO
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> Stay safe online with Tiscali Security Centre - http://www.tiscali.co.uk/security
> ~---~
>

1009. Re: Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-07-28 12:55:29 UTC
From: absorbentgnome
Topic: 1003 Message: 1009

If anyone is in the same situation as myself - you have internal batteries and speaker in the radio and not the cw unit then if you connect a 4.7R 2 watt resistor between the - battery connection and ground then you will be able to use rechargables (this will charge at a rate of 100 - 150mA) and the CW unit will run off the power from the radio unit. Admittedly, the CW unit is running through the 4.7R resistor when on battery power, but this does not seem to have any effect on the CW unit performance.

In my CW unit I have installed a speaker that is larger and better than the one I could fit in the radio unit. This allows the use of the CW filter etc and improves the output when the unit is used.

Dan.

--- In mkars80@..., "absorbentgnome" <absorbentgnome@...> wrote:
>
> The hiss is definitely from the audio amp and nothing else. The problem also affects the CW adapter kit, although it does not seem quite as bad as the radio kit in my case. Probably some of the problem is down to component variation.
>
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> Dan.
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> > Dan,
> >
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> >
> > Although I guess some HF roll off doesn't go amiss.....
> >
> > Steve
> > G6ALU
> >
> > >----Original Message----
> > >From: absorbentgnome@
> > >Date: 24/07/2009 9:14
> > >To: <mkars80@...>
> > >Subj: [mkars80] Anti hiss mod for MKARS80 audio amp
> > >

> > >Hi everyone
> > >
> > >I was a little disappointed with the amount of hiss coming from the
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>

1010. Expanding resources

Yahoo group: mkars80
Date: 2009-07-28 17:55:38 UTC
From: trygvesjothun
Topic: 1010 Message: 1010

Hi, I'm Tryg. I originally was licenced in 1986 but "stuff" came along and it has taken me until quite recently to get my feet back in the water. Though there is still some gear in the "shack" (boxes under a bed!) qrp is of great interest to me and I hope to order a kit soon.

I am fascinated by the sheer functionality of the mkars80. I'm already putting an enclosure together for it. My aim is for DX using kite antennae - CW and PSK31, maybe even SSTV. My QTH is on the Atlantic Coast of Ireland. I'd love to give it a go when I get my licence again (in process).

My humble request. ..given that there is nothing to be found of a video nature on the web (afaik) could someone please shunt up a video to look at the unit in operation. This would be of immense help to show the capabilities of the mkars80 to a number of people at one time. I look forward to posting about my experiences with this cool little rig. I can't wait. Cheers and 73's Tryg

1011. Re: [mkars80] Expanding resources

Yahoo group: mkars80
Date: 2009-07-28 18:05:04 UTC
From: Steve Drury
Topic: 1010 Message: 1011

Unfortunately I don't have any easy means to record video but if you look in the files section on the Yahoo group web page you wil find a short video that Ron PA0RCL did.

Steve G6ALU

----- Original Message -----
From: "trygvesjothun" <triggertech@...>
To: <mkars80@...>
Sent: Tuesday, July 28, 2009 6:55 PM
Subject: [mkars80] Expanding resources

>
> Hi, I'm Tryg. I originally was licenced in 1986 but "stuff" came along and
> it has taken me until quite recently to get my feet back in the water.
> Though there is still some gear in the "shack" (boxes under a bed!) qrp is
> of great interest to me and I hope to order a kit soon.
>
> I am fascinated by the sheer functionality of the mkars80. I'm already
> putting an enclosure together for it. My aim is for DX using kite
> antennae - CW and PSK31, maybe even SSTV. My QTH is on the Atlantic Coast
> of Ireland. I'd love to give it a go when I get my licence again (in
> process).
>
> My humble request. ..given that there is nothing to be found of a video
> nature on the web (afaik) could someone please shunt up a video to look at
> the unit in operation. This would be of immense help to show the
> capabilities of the mkars80 to a number of people at one time. I look
> forward to posting about my experiences with this cool little rig. I can't
> wait. Cheers and 73's Tryg
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.34/2268 - Release Date: 07/28/09 06:00:00

1012. Re: Expanding resources

Yahoo group: mkars80
Date: 2009-07-28 18:13:39 UTC
From: trygvesjothun
Topic: 1010 Message: 1012

Thanks Steve. Looks like I've just got to get the kit. I have the camera. :-)

1013. Re: Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-07-29 10:18:00 UTC
From: absorbentgnome
Topic: 1003 Message: 1013

Ok there is an issue with the proposed mod, once this is resolved I'll describe the extra components.

--- In mkars80@..., "absorbentgnome" <absorbentgnome@...> wrote:
>
> If anyone is in the same situation as myself - you have internal batteries and speaker in the radio and not the cw unit then if you connect a 4.7R 2 watt resistor between the - battery connection and ground then you will be able to use rechargables (this will charge at a rate of 100 - 150mA) and the CW unit will run off the power from the radio unit. Admittedly, the CW unit is running through the 4.7R resistor when on battery power, but this does not seem to have any effect on the CW unit performance.
>
> In my CW unit I have installed a speaker that is larger and better than the one I could fit in the radio unit. This allows the use of the CW filter etc and improves the output when the unit is used.
>
> Dan.
>
> --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> >
> > The hiss is definitely from the audio amp and nothing else. The problem also affects the CW adapter kit, although it does not seem quite as bad as the radio kit in my case. Probably some of the problem is down to component variation.
> >
> > The radio kit is now boxed up, with an internal speaker and set of batteries.
> >
> > Upon completion of the CW adapter kit, it was realised that perhaps the better combination would have been to squeeze the CW kit into the radio box and have another box for batteries and a speaker. Oh well - gotta figure out a way to nicely route power from the radio to the cw kit - the other way around for which it was designed! (doh)
> >
> > Dan.
> >
> > --- In mkars80@..., "g6alu@" <g6alu@> wrote:
> > >
> > > Dan,
> > >
> > > I've not noticed hiss to be objectionable - are you using headphones I
> > > wonder?
> > >
> > > Although I guess some HF roll off doesn't go amiss.....
> > >
> > > Steve
> > > G6ALU
> > >

> > > >----Original Message----
> > > >From: absorbentgnome@
> > > >Date: 24/07/2009 9:14
> > > >To: <mkars80@...>
> > > >Subj: [mkars80] Anti hiss mod for MKARS80 audio amp
> > > >
> > > >Hi everyone
> > > >
> > > >I was a little disappointed with the amount of hiss coming from the
> > > LM386 on the MKARS80 kit. An anti-hiss mod sorted out the problem -
> > > solder a 10k and 10nF capacitor in series between pin 8 of the LM386
> > > and the negative lead of C2 (the speaker output), This significantly
> > > reduces the hiss :)
> > > >
> > > >I read about a possible AGC mod for the receiver - can anyone post
> > > the files or email them to me?
> > > >
> > > >My transceiver is boxed up now and I am very pleased with it - thanks
> > > Steve!
> > > >
> > > >Thanks
> > > >Dan 2W0UZO
> > > >
> > > >
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> > > >Yahoo! Groups Links
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> > > Stay safe online with Tiscali Security Centre - http://www.tiscali.co.uk/security
> > > ____
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>

1014. Success!

Yahoo group: mkars80
Date: 2009-07-29 20:12:10 UTC
From: dave_m0mya
Topic: 1014 Message: 1014

Dear All,

Its been about 12 months now since I last posted here, and unfortunately I can't find my original threads to continue them. I would have been 2E0BYA at the time.

I had my MKARS80 all assembled, but it was suffering with low RX audio and no sign of passing audio to the TX stages. I'd got myself a bit stumped. Anyhow, today was a rainy one so I brought out the old kit to see what I could do to fix it. I started by checking all of the connections and reflowing any that looked suspect. Eventually, I stumbled upon one of the small binocular transformers (T6 IIRC) where I had seemingly not done a good job of removing the enamel before soldering it to the board. I desoldered the joints, scratched the wire about a bit with my penknife and resoldered it. Problem solved! I gave all the other toroids the same treatment for good measure.

I have just had my first QSO with it from my home QTH in N.W Worcestershire to a /P operation in Wiltshire. The op informed me that I never went below 5/9+20dB! Finally I get to feel that "first QSO on something I built" feeling that so many have mentioned. Its brilliant!

My firmware is v1.1 - is it feasible to upgrade to 2.4? Would that be an advantage to me? And what of these nets I've seen mention of - are any more likely to be occurring?

Thanks and 73,

Dave M0MYA.

1015. At Last !

Yahoo group: mkars80
Date: 2009-07-29 20:26:51 UTC
From: Master Ice
Topic: 1015 Message: 1015

Hi all.

Another MKARS80 success to report!

At last I finally have my kit up and running (except the metal bashing I'm afraid)
It was a b*gger since I have post-chemo neuropathy in my hands and fingers and if you think winding toroids is hard normally, try doing it when you can't even feel the wire LOLOL!

Anyway it worked straight off and I've been able to hear several QSOs even through the local 80M qrm.

The transmit side was aligned and tested using a large bulldog clip as a temporary heatsink on the PA and now all I have to do is bash and cut the metal into something resembling the case.

All in all I loved building the kit and already have plans afoot to modify it to go into a more flash casing.

Thanks to Steve for a brilliant piece of kit.

Slim G4IPZ

1016. Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-08-01 07:03:22 UTC
From: Steve Drury
Topic: 1016 Message: 1016

I will try and hold a sked tomorrow (Sunday 2nd) from about 9:30am, as always we will use the frequency of 3.690MHz ? QRM and other nets.

Last weeks sked broke apart due to band conditions, lets hope they are better tomorrow! I will be based at Bletchley Park where we have a special event "Radio-Waves" see http://www.bletchleypark.org.uk/news/docview.rhtm/587616

My call G6ALU/P will be used.

Last week call signs heard (but not nesasarily worked) were:

M1CXK
M1EEL
G3ZSV
G4MDR
G7HSA

Steve G6ALU

1017. Re: Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-08-01 08:45:26 UTC
From: sa3azk
Topic: 1016 Message: 1017

Hi Steve and all

What time is 9:30am in UTC?
I will try to reach you from Sweden with my MKARS80, Worked several european stations last night with the little rig, so it's quite possible to make contact with you guys.

Please listen for SA3AZK/QRP

73 de SA3AZK / Mike

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> I will try and hold a sked tomorrow (Sunday 2nd) from about 9:30am, as
> always we will use the frequency of 3.690MHz ± QRM and other nets.
>
> Last weeks sked broke apart due to band conditions, lets hope they are
> better tomorrow! I will be based at Bletchley Park where we have a special
> event "Radio-Waves" see
> http://www.bletchleypark.org.uk/news/docview.rhtm/587616
>
> My call G6ALU/P will be used.
>
>
> Last week call signs heard (but not nesasarily worked) were:
>
> M1CXK
> M1EEL
> G3ZSV
> G4MDR
> G7HSA
>
> Steve G6ALU
>

1018. Re: [mkars80] Re: Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-08-01 09:03:39 UTC
From: Jon Carp
Topic: 1016 Message: 1018

UK time is currently one hour later than UTC so it's 08:30 UTC.
Jon

****
Sent from my BlackBerry? wireless device

-----Original Message-----
From: "sa3azk" <mikael_andersson@...>

Date: Sat, 01 Aug 2009 08:45:26
To: <mkars80@...>
Subject: [mkars80] Re: Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

Hi Steve and all

What time is 9:30am in UTC?
I will try to reach you from Sweden with my MKARS80, Worked several european stations last night with the little rig, so it's quite possible to make contact with you guys.

Please listen for SA3AZK/QRP

73 de SA3AZK / Mike

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I will try and hold a sked tomorrow (Sunday 2nd) from about 9:30am, as
> always we will use the frequency of 3.690MHz ? QRM and other nets.
>
> Last weeks sked broke apart due to band conditions, lets hope they are
> better tomorrow! I will be based at Bletchley Park where we have a special
> event "Radio-Waves" see
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> My call G6ALU/P will be used.
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> Last week call signs heard (but not nesasarily worked) were:
>
> M1CXK
> M1EEL
> G3ZSV
> G4MDR
> G7HSA
>
> Steve G6ALU
>

[Non-text portions of this message have been removed]

1019. Re: [mkars80] Re: Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-08-01 09:09:42 UTC
From: DAVID CLENCH
Topic: 1016 Message: 1019

Hej

Sweden is one hour ahead of UK.

73 & hej da

Dave G0BVV

From: sa3azk <mikael_andersson@...>
To: mkars80@...
Sent: Saturday, 1 August, 2009 9:45:26 AM
Subject: [mkars80] Re: Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

Hi Steve and all

What time is 9:30am in UTC?
I will try to reach you from Sweden with my MKARS80, Worked several european stations last night with the little rig, so it's quite possible to make contact with you guys.

Please listen for SA3AZK/QRP

73 de SA3AZK / Mike

--- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
>
> I will try and hold a sked tomorrow (Sunday 2nd) from about 9:30am, as
> always we will use the frequency of 3.690MHz ± QRM and other nets.
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> better tomorrow! I will be based at Bletchley Park where we have a special
> event "Radio-Waves" see
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>
>
> Last week call signs heard (but not nesasarily worked) were:
>
> M1CXK
> M1EEL
> G3ZSV
> G4MDR
> G7HSA
>
> Steve G6ALU
>

[Non-text portions of this message have been removed]

1020. Re: Success!

Yahoo group: mkars80
Date: 2009-08-02 19:50:08 UTC
From: dave_m0mya
Topic: 1014 Message: 1020

Dear All,

Since the previous post Steve has very quickly sorted me out for the VFO mod and new firmware.

I took the new radio out for its first SOTA activation today. I gave it about 10 mins to warm up, broke the huff and puff lock, retuned, and it stayed merrily on frequency for a good hour of long-over operating! Very stable and very enjoyable to use. I have had many reports of good audio, even people asking what microphone I am using! 7 contacts around the UK, and something interesting to tell them all.

Next stop is an absorptive SWR bridge so I can use it with my W3EDP and tuner. I may try to incorporate this into the radio its self.

73,

Dave M0MYA.

--- In mkars80@..., "dave_m0mya" <moleonacid@...> wrote:
>
> Dear All,
>
> Its been about 12 months now since I last posted here, and unfortunately I can't find my original threads to continue them. I would have been 2E0BYA at the time.
>
> I had my MKARS80 all assembled, but it was suffering with low RX audio and no sign of passing audio to the TX stages. I'd got myself a bit stumped. Anyhow, today was a rainy one so I brought out the old kit to see what I could do to fix it. I started by checking all of the connections and reflowing any that looked suspect. Eventually, I stumbled upon one of the small binocular transformers (T6 IIRC) where I had seemingly not done a good job of removing the enamel before soldering it to the board. I desoldered the joints, scratched the wire about a bit with my penknife and resoldered it. Problem solved! I gave all the other toroids the same treatment for good measure.
>
> I have just had my first QSO with it from my home QTH in N.W Worcestershire to a /P operation in Wiltshire. The op informed me that I never went below 5/9+20dB! Finally I get to feel that "first QSO on something I built" feeling that so many have mentioned. Its brilliant!
>
> My firmware is v1.1 - is it feasible to upgrade to 2.4? Would that be an advantage to me? And what of these nets I've seen mention of - are any more likely to be occurring?
>
> Thanks and 73,
>
> Dave M0MYA.
>

1021. Re: Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-08-04 10:07:53 UTC
From: absorbentgnome
Topic: 1003 Message: 1021

A one ohm resistor connected between the - battery pad and ground with a low dropout schottky diode (3A) in parallel with it with the cathode connected at the - battery pad end gives the required performance for my arrangement. 12 AAA Nicad cells are used in my radio, initially I used 10 AAA cells however the voltage dropped too much under TX load to give a decent amount of RF power. To charge the batteries a 16V dc supply is required. On external power at 16V, the radio will generate 8-10W of RF. On battery power it will generate 5W. Power from the internal cells can be drawn via the power socket for any external units. The diode allows a decent voltage and current flow when a jack is plugged in to power the external CW unit and the radio itself when external power is disconnected (opening the switch in the jack).

I had also added an LCD backlight using a high intensity green LED connected to the 5V supply on the LCD unit. This draws approximately 30mA, so there is slightly more heating of the 5V regulator, however the heat generation is well within the capability of the device.

Dan.

--- In mkars80@yahoogroups.co.uk, "absorbentgnome" <absorbentgnome@...> wrote:
>
> Ok there is an issue with the proposed mod, once this is resolved I'll describe the extra components.
>
> --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> >
> > If anyone is in the same situation as myself - you have internal batteries and speaker in the radio and not the cw unit then if you connect a 4.7R 2 watt resistor between the - battery connection and ground then you will be able to use rechargables (this will charge at a rate of 100 - 150mA) and the CW unit will run off the power from the radio unit. Admittedly, the CW unit is running through the 4.7R resistor when on battery power, but this does not seem to have any effect on the CW unit performance.
> >
> > In my CW unit I have installed a speaker that is larger and better than the one I could fit in the radio unit. This allows the use of the CW filter etc and improves the output when the unit is used.
> >
> > Dan.
> >
> > --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> > >
> > > The hiss is definitely from the audio amp and nothing else. The problem also affects the CW adapter kit, although it does not seem quite as bad as the radio kit in my case. Probably some of the problem is down to component variation.
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> > > The radio kit is now boxed up, with an internal speaker and set of batteries.
> > >
> > > Upon completion of the CW adapter kit, it was realised that perhaps the better

combination would have been to squeeze the CW kit into the radio box and have another box for batteries and a speaker. Oh well - gotta figure out a way to nicely route power from the radio to the cw kit - the other way around for which it was designed! (doh)
> > >
> > > Dan.
> > >
> > > --- In mkars80@..., "g6alu@" <g6alu@> wrote:
> > > >
> > > > Dan,
> > > >
> > > > I've not noticed hiss to be objectionable - are you using headphones I
> > > > wonder?
> > > >
> > > > Although I guess some HF roll off doesn't go amiss.....
> > > >
> > > > Steve
> > > > G6ALU
> > > >
> > > > >----Original Message----
> > > > >From: absorbentgnome@
> > > > >Date: 24/07/2009 9:14
> > > > >To: <mkars80@...>
> > > > >Subj: [mkars80] Anti hiss mod for MKARS80 audio amp
> > > > >
> > > > >Hi everyone
> > > > >
> > > > >I was a little disappointed with the amount of hiss coming from the
> > > > LM386 on the MKARS80 kit. An anti-hiss mod sorted out the problem -
> > > > solder a 10k and 10nF capacitor in series between pin 8 of the LM386
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> > > > >Thanks
> > > > >Dan 2W0UZO
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>

1022. Re: [mkars80] Re: Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-08-04 12:14:41 UTC
From: g6alu@tiscali.co.uk
Topic: 1003 Message: 1022

Dan,
Does heating caused by the 5V regulator make warm up time or drift any worse?

Please be careful when playing with Nicad or NiMH cells - I've seen some nasty burn-ups caused by short circuits and split cells caused by over-charging.

Steve G6ALU

>----Original Message----
>From: absorbentgnome@...
>Date: 04/08/2009 11:07
>To: <mkars80@...>
>Subj: [mkars80] Re: Anti hiss mod for MKARS80 audio amp
>
>A one ohm resistor connected between the - battery pad and ground with a low dropout schottky diode (3A) in parallel with it with the cathode connected at the - battery pad end gives the required performance for my arrangement. 12 AAA Nicad cells are used in my radio, initially I used 10 AAA cells however the voltage dropped too much under TX load to give a decent amount of RF power. To charge the batteries a 16V dc supply is required. On external power at 16V, the radio will generate 8-10W of RF. On battery power it will generate 5W.
>Power from the internal cells can be drawn via the power socket for any external units. The diode allows a decent voltage and current flow when a jack is plugged in to power the external CW unit and the radio itself when external power is disconnected (opening the switch in the jack).
>
>I had also added an LCD backlight using a high intensity green LED connected to the 5V supply on the LCD unit. This draws approximately 30mA, so there is slightly more heating of the 5V regulator, however the heat generation is well within the capability of the device.
>
>Dan.
>
>--- In mkars80@..., "absorbentgnome" <absorbentgnome@...
> wrote:
>>
>> Ok there is an issue with the proposed mod, once this is resolved I'll describe the extra components.
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>> --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
>> >

>> > If anyone is in the same situation as myself - you have internal batteries and speaker in the radio and not the cw unit then if you connect a 4.7R 2 watt resistor between the - battery connection and ground then you will be able to use rechargables (this will charge at a rate of 100 - 150mA) and the CW unit will run off the power from the radio unit. Admittedly, the CW unit is running through the 4.7R resistor when on battery power, but this does not seem to have any effect on the CW unit performance.
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>> > >
>> > > Dan.
>> > >
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>> > > >
>> > > > Dan,
>> > > >
>> > > > I've not noticed hiss to be objectionable - are you using headphones I
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>> > > > Although I guess some HF roll off doesn't go amiss.....
>> > > >
>> > > > Steve
>> > > > G6ALU
>> > > >
>> > > > >----Original Message----
>> > > > >From: absorbentgnome@
>> > > > >Date: 24/07/2009 9:14

>> > > > >To: <mkars80@...>
>> > > > >Subj: [mkars80] Anti hiss mod for MKARS80 audio amp
>> > > > >
>> > > > >Hi everyone
>> > > > >
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from the
>> > > > LM386 on the MKARS80 kit. An anti-hiss mod sorted out the
problem -
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How safe is your data? Find out more about the issues at Tiscali Security Centre - http://www.tiscali.co.uk/security

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1023. Re: [mkars80] Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-08-04 19:17:33 UTC
From: Steve Drury
Topic: 1016 Message: 1023

A little more success with the sked this week, good signals were heard from:

M1EEL - Mick, Kent
G7HEU - Steve, Wroughton
G3ZSV - Glyn, Plymouth
G7HSA - Adrian, Leatherhead
M1CXK - Alan, Dartford

Interesting to see all were to the South of Milton Keynes, I will hold another sked this Sunday - same time, same place.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Saturday, August 01, 2009 8:03 AM
Subject: [mkars80] Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

>I will try and hold a sked tomorrow (Sunday 2nd) from about 9:30am, as
> always we will use the frequency of 3.690MHz ? QRM and other nets.
>
> Last weeks sked broke apart due to band conditions, lets hope they are
> better tomorrow! I will be based at Bletchley Park where we have a special
> event "Radio-Waves" see
> http://www.bletchleypark.org.uk/news/docview.rhtm/587616
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> My call G6ALU/P will be used.
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> M1CXK
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> G3ZSV
> G4MDR
> G7HSA
>
> Steve G6ALU
>
>
>
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>
> Yahoo! Groups Links
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>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.38/2274 - Release Date: 07/31/09
05:58:00

1024. Shaft Lengths

Yahoo group: mkars80
Date: 2009-08-05 17:30:43 UTC
From: richarddawson64
Topic: 1024 Message: 1024

Page 10 gives two instructions regarding cutting the potentiometer shafs to length: 18mm or according to knobs used. I don't understand the contradiction.
Richard m0drb

1025. Re: [mkars80] Shaft Lengths

Yahoo group: mkars80
Date: 2009-08-05 17:34:36 UTC
From: Jon Carp
Topic: 1024 Message: 1025

I'd guess that length would match the size of knobs used on the original design. If you wanted to use different knobs, the internal length may be different so the shafts would need to be cut to the appropriate length to match.

At 18:30 05/08/2009, you wrote:
>
>
>Page 10 gives two instructions regarding cutting the potentiometer
>shafs to length: 18mm or according to knobs used. I don't understand
>the contradiction.
>Richard m0drb
>
>

[Non-text portions of this message have been removed]

1026. Re: Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM

Yahoo group: mkars80
Date: 2009-08-05 18:11:15 UTC
From: m0heu
Topic: 1016 Message: 1026

Re last Sunday's sked:

My MKARS80 is recently finished and I have not had much opportunity to use it. During Sunday's net I appeared to receive better signal reports than I was sending - to the extent that I wondered if I had a slight problem with the MKARS80 or perhaps it was working but just lacking sensitivity.

I left the net and listened on my main rig and was, (perversely?), delighted to learn that received signals were pretty low there too. In other words the MKARS80 was doing a great job and it was just conditions that were against me.

I need to get mine in a box and use it more...

Steve / G7HEU.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> A little more success with the sked this week, good signals were heard from:
>
> M1EEL - Mick, Kent
> G7HEU - Steve, Wroughton
> G3ZSV - Glyn, Plymouth
> G7HSA - Adrian, Leatherhead
> M1CXK - Alan, Dartford
>
> Interesting to see all were to the South of Milton Keynes, I will hold
> another sked this Sunday - same time, same place.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Saturday, August 01, 2009 8:03 AM
> Subject: [mkars80] Sked 9:30AM Sunday 2nd August 3.690 MHz +/- QRM
>
>
> >I will try and hold a sked tomorrow (Sunday 2nd) from about 9:30am, as
> > always we will use the frequency of 3.690MHz ± QRM and other nets.
> >
> > Last weeks sked broke apart due to band conditions, lets hope they are
> > better tomorrow! I will be based at Bletchley Park where we have a special
> > event "Radio-Waves" see
> > http://www.bletchleypark.org.uk/news/docview.rhtm/587616
> >
> > My call G6ALU/P will be used.

> >
> >
> > Last week call signs heard (but not nesasarily worked) were:
> >
> > M1CXK
> > M1EEL
> > G3ZSV
> > G4MDR
> > G7HSA
> >
> > Steve G6ALU
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> >
>
>
> --
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.38/2274 - Release Date: 07/31/09
> 05:58:00
>

1027. Re: [mkars80] Shaft Lengths

Yahoo group: mkars80
Date: 2009-08-05 18:29:18 UTC
From: Steve Drury
Topic: 1024 Message: 1027

Thanks Jon, thats what I meant but probably not put too well!

For the knobs I supply as an option 18mm is OK.

Steve G6ALU

----- Original Message -----
From: "Jon Carp" <joncarp@...>
To: <mkars80@...>
Sent: Wednesday, August 05, 2009 6:34 PM
Subject: Re: [mkars80] Shaft Lengths

> I'd guess that length would match the size of knobs used on the
> original design. If you wanted to use different knobs, the internal
> length may be different so the shafts would need to be cut to the
> appropriate length to match.
>
> At 18:30 05/08/2009, you wrote:
>>
>>
>>Page 10 gives two instructions regarding cutting the potentiometer
>>shafs to length: 18mm or according to knobs used. I don't understand
>>the contradiction.
>>Richard m0drb
>>
>>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.43/2281 - Release Date: 08/04/09
05:57:00

1028. Sunday Sked - 3.690MHz @ 9:30 local time

Yahoo group: mkars80
Date: 2009-08-09 09:28:25 UTC
From: Steve Drury
Topic: 1028 Message: 1028

Quite a few stations this week:

G8JWT - Roger, Stoke Goldington Bucks
G4MDR - Alan, Newport Pagnel Bucks
M0MYA - Dave, Kiderminster
G7HSA - Adrian, Leatherhead
G3UD - Graham, Stoke on Trent
M1CXK - Alan, Dartford
M1EEL - Mick... heard briefly

Probably the largest number of participants so far - I intend holding the sked at the same time and frequency next week (3.690MHz @ 9:30 summer time), my call will be GB2MKM.

Steve G6ALU

>A little more success with the sked this week, good signals were heard
>from:
>
> M1EEL - Mick, Kent
> G7HEU - Steve, Wroughton
> G3ZSV - Glyn, Plymouth
> G7HSA - Adrian, Leatherhead
> M1CXK - Alan, Dartford

1029. Re: Sunday Sked - 3.690MHz @ 9:30 local time

Yahoo group: mkars80
Date: 2009-08-09 10:44:30 UTC
From: g3oth
Topic: 1028 Message: 1029

Hi Steve and all.
I listened to your sked this morning on my MKARS80 from up here in Northumberland for a good three quarters of an hour. Signals weren't particularly good but I copied about half of the stations you listed.
Dave M0MYA and Graham G3UD were the strongest, Steve G6ALU, you were next best but solid, then Alan G4MDR, and then others who were just about audible here.
I called in several times on a very low end fed wire with my 5 watts but I didn't really expect to make it from here. If you were all running QRP and MKARS80s then you are all doing well. Will try again next week so 73 fer nw de Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Quite a few stations this week:
>
> G8JWT - Roger, Stoke Goldington Bucks
> G4MDR - Alan, Newport Pagnel Bucks
> M0MYA - Dave, Kiderminster
> G7HSA - Adrian, Leatherhead
> G3UD - Graham, Stoke on Trent
> M1CXK - Alan, Dartford
> M1EEL - Mick... heard briefly
>
> Probably the largest number of participants so far - I intend holding the
> sked at the same time and frequency next week (3.690MHz @ 9:30 summer time),
> my call will be GB2MKM.
>
> Steve G6ALU
>
> >A little more success with the sked this week, good signals were heard
> >from:
> >
> > M1EEL - Mick, Kent
> > G7HEU - Steve, Wroughton
> > G3ZSV - Glyn, Plymouth
> > G7HSA - Adrian, Leatherhead
> > M1CXK - Alan, Dartford
>

1030. Display location

Yahoo group: mkars80
Date: 2009-08-09 19:00:50 UTC
From: richarddawson64
Topic: 1030 Message: 1030

Page 11:
'Fit the display using a single screw in the top left hand corner' The only hole in the pcb is that for checking the 10MHz frequency, do we use it? Drilling another one would be hazardous to say the least
Ricahrd m0drb

1031. Re: [mkars80] Display location

Yahoo group: mkars80
Date: 2009-08-09 19:42:43 UTC
From: Steve Drury
Topic: 1030 Message: 1031

Don't drill any hles Richard they are all there - or should be in any case!

Look at the solder side of the PCB, with the controls towards the bottom you will see a 2.5mm hole in the top left corner.

Come back to me if you are unsure and I will send you a photo.

Steve G6ALU

----- Original Message -----
From: "richarddawson64" <richarddawson64@...>
To: <mkars80@...>
Sent: Sunday, August 09, 2009 8:00 PM
Subject: [mkars80] Display location

> Page 11:
> 'Fit the display using a single screw in the top left hand corner' The
> only hole in the pcb is that for checking the 10MHz frequency, do we use
> it? Drilling another one would be hazardous to say the least
> Ricahrd m0drb
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.48/2291 - Release Date: 08/08/09 18:17:00

1032. Low sensitivity

Yahoo group: mkars80
Date: 2009-08-09 20:25:43 UTC
From: pa3ecn
Topic: 1032 Message: 1032

Hello All,

are the any known common faults that result in low sensitivity?
Last week I connected my just finished MKARS80 to a dipole and heard severals station but very weak. Any tips on fault finding are welcome ...
I still have to mount Q1 and do the transmitter aligment.
Thanks!

73 - Eric
PA3ECN

1033. Re: [mkars80] Low sensitivity

Yahoo group: mkars80
Date: 2009-08-09 20:31:53 UTC
From: Steve Drury
Topic: 1032 Message: 1033

Eric,

First measure all the transistor voltages and compare against the voltage chart in manual. If this doesn't point to a problem make sure ALL the mixer transformers have their wires soldered properly; if your iron is not hot the insulation may not be removed.

Hope this helps,
Steve G6ALU

----- Original Message -----
From: "pa3ecn" <eric.vink@...>
To: <mkars80@...>
Sent: Sunday, August 09, 2009 9:25 PM
Subject: [mkars80] Low sensitivity

> Hello All,
>
> are the any known common faults that result in low sensitivity?
> Last week I connected my just finished MKARS80 to a dipole and heard
> severals station but very weak. Any tips on fault finding are welcome ...
> I still have to mount Q1 and do the transmitter aligment.
> Thanks!
>
> 73 - Eric
> PA3ECN
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.48/2291 - Release Date: 08/08/09 18:17:00

1034. Re: Low sensitivity

Yahoo group: mkars80
Date: 2009-08-10 11:19:53 UTC
From: pa3ecn
Topic: 1032 Message: 1034

Hello,

thanks for the reply Steve.
I found the problem around Q15. Q15 is the transistor/amplifier before the crystal filter and that explains the low sensitivity. The problem was a reversed mounted diode D8.
Sensitivity now seems normal.

Thanks for the help!

73 - Eric
PA3ECN

1035. Re: Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-08-10 11:48:11 UTC
From: absorbentgnome
Topic: 1003 Message: 1035

While I have not made any quantative measurements, it does seem that the vfo stability is not greatly affected by the additional heating from the regulator. It has affected battery life though - so I may remove it or add a small mod so that the backlight is turned on and off by the pic. The huff and puff does an excellent job of stabilising the receiver, even when transmitting a constant carrier for some time.

The battery charging circuit works fine in my arrangement, the charging current levels off to a low value when fully charged using a charge voltage of 16 to 16.5V and there is only slight heating of the cells when left on charge for an extended period.

It must be noted of course that the one ohm resistor would not provide protection against overcharging if the supply voltage was increased. It was chosen to allow charging from a supply that was limited in its maximum voltage. A cell in a charger can reach 2.5V across it, which would not be very good for the transceiver (12*2.5=30V!)

I have finished my QRP portable station now, I'm waiting for the camera battery to charge and I'll post some photos on the group.

Dan.

--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:
>
> Dan,
> Does heating caused by the 5V regulator make warm up time or drift any
> worse?
>
> Please be careful when playing with Nicad or NiMH cells - I've seen
> some nasty burn-ups caused by short circuits and split cells caused by
> over-charging.
>
> Steve G6ALU
>
> >----Original Message----
> >From: absorbentgnome@...
> >Date: 04/08/2009 11:07
> >To: <mkars80@...>
> >Subj: [mkars80] Re: Anti hiss mod for MKARS80 audio amp
> >
> >A one ohm resistor connected between the - battery pad and ground
> with a low dropout schottky diode (3A) in parallel with it with the
> cathode connected at the - battery pad end gives the required
> performance for my arrangement. 12 AAA Nicad cells are used in my
> radio, initially I used 10 AAA cells however the voltage dropped too
> much under TX load to give a decent amount of RF power. To charge the
> batteries a 16V dc supply is required. On external power at 16V, the
> radio will generate 8-10W of RF. On battery power it will generate 5W.

> >Power from the internal cells can be drawn via the power socket for
> any external units. The diode allows a decent voltage and current flow
> when a jack is plugged in to power the external CW unit and the radio
> itself when external power is disconnected (opening the switch in the
> jack).
> >
> >I had also added an LCD backlight using a high intensity green LED
> connected to the 5V supply on the LCD unit. This draws approximately
> 30mA, so there is slightly more heating of the 5V regulator, however
> the heat generation is well within the capability of the device.
> >
> >Dan.
> >
> >--- In mkars80@..., "absorbentgnome" <absorbentgnome@
> > wrote:
> >>
> >> Ok there is an issue with the proposed mod, once this is resolved
> I'll describe the extra components.
> >>
> >> --- In mkars80@....uk, "absorbentgnome"
> <absorbentgnome@> wrote:
> >> >
> >> > If anyone is in the same situation as myself - you have internal
> batteries and speaker in the radio and not the cw unit then if you
> connect a 4.7R 2 watt resistor between the - battery connection and
> ground then you will be able to use rechargables (this will charge at a
> rate of 100 - 150mA) and the CW unit will run off the power from the
> radio unit. Admittedly, the CW unit is running through the 4.7R
> resistor when on battery power, but this does not seem to have any
> effect on the CW unit performance.
> >> >
> >> > In my CW unit I have installed a speaker that is larger and
> better than the one I could fit in the radio unit. This allows the use
> of the CW filter etc and improves the output when the unit is used.
> >> >
> >> > Dan.
> >> >
> >> > --- In mkars80@..., "absorbentgnome"
> <absorbentgnome@> wrote:
> >> > >
> >> > > The hiss is definitely from the audio amp and nothing else. The
> problem also affects the CW adapter kit, although it does not seem
> quite as bad as the radio kit in my case. Probably some of the problem
> is down to component variation.
> >> > >
> >> > > The radio kit is now boxed up, with an internal speaker and set
> of batteries.
> >> > >
> >> > > Upon completion of the CW adapter kit, it was realised that
> perhaps the better combination would have been to squeeze the CW kit

> into the radio box and have another box for batteries and a speaker. Oh
> well - gotta figure out a way to nicely route power from the radio to
> the cw kit - the other way around for which it was designed! (doh)
> >> > >
> >> > > Dan.
> >> > >
> >> > > --- In mkars80@yahoogroups.co.uk, "g6alu@" <g6alu@> wrote:
> >> > > >
> >> > > > Dan,
> >> > > >
> >> > > > I've not noticed hiss to be objectionable - are you using
> headphones I
> >> > > > wonder?
> >> > > >
> >> > > > Although I guess some HF roll off doesn't go amiss.....
> >> > > >
> >> > > > Steve
> >> > > > G6ALU
> >> > > >
> >> > > > >----Original Message----
> >> > > > >From: absorbentgnome@
> >> > > > >Date: 24/07/2009 9:14
> >> > > > >To: <mkars80@yahoogroups.co.uk>
> >> > > > >Subj: [mkars80] Anti hiss mod for MKARS80 audio amp
> >> > > > >
> >> > > > >Hi everyone
> >> > > > >
> >> > > > >I was a little disappointed with the amount of hiss coming
> from the
> >> > > > LM386 on the MKARS80 kit. An anti-hiss mod sorted out the
> problem -
> >> > > > solder a 10k and 10nF capacitor in series between pin 8 of
> the LM386
> >> > > > and the negative lead of C2 (the speaker output), This
> significantly
> >> > > > reduces the hiss :)
> >> > > >
> >> > > > >I read about a possible AGC mod for the receiver - can
> anyone post
> >> > > > the files or email them to me?
> >> > > >
> >> > > > >My transceiver is boxed up now and I am very pleased with it
> - thanks
> >> > > > Steve!
> >> > > >
> >> > > > >Thanks
> >> > > > >Dan 2W0UZO
> >> > > >
> >> > > >
> >> > > >

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> >> > > > Stay safe online with Tiscali Security Centre - http://www.
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> How safe is your data? Find out more about the issues at Tiscali Security Centre -
http://www.tiscali.co.uk/security
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>

1036. Re: [mkars80] Re: Anti hiss mod for MKARS80 audio amp

Yahoo group: mkars80
Date: 2009-08-10 12:14:09 UTC
From: g6alu@tiscali.co.uk
Topic: 1003 Message: 1036

I look forward to seeing the photos Dan.

Steve G6ALU

>----Original Message----
>From: absorbentgnome@...
>Date: 10/08/2009 12:48
>To: <mkars80@...>
>Subj: [mkars80] Re: Anti hiss mod for MKARS80 audio amp
>
>While I have not made any quantative measurements, it does seem that
the vfo stability is not greatly affected by the additional heating
from the regulator. It has affected battery life though - so I may
remove it or add a small mod so that the backlight is turned on and off
by the pic. The huff and puff does an excellent job of stabilising the
receiver, even when transmitting a constant carrier for some time.
>
>The battery charging circuit works fine in my arrangement, the
charging current levels off to a low value when fully charged using a
charge voltage of 16 to 16.5V and there is only slight heating of the
cells when left on charge for an extended period.
>
>It must be noted of course that the one ohm resistor would not
provide protection against overcharging if the supply voltage was
increased. It was chosen to allow charging from a supply that was
limited in its maximum voltage. A cell in a charger can reach 2.5V
across it, which would not be very good for the transceiver (12*2.
5=30V!)
>
>I have finished my QRP portable station now, I'm waiting for the
camera battery to charge and I'll post some photos on the group.
>
>Dan.
>
>--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:
>>
>> Dan,
>> Does heating caused by the 5V regulator make warm up time or drift
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>> worse?
>>
>> Please be careful when playing with Nicad or NiMH cells - I've
seen
>> some nasty burn-ups caused by short circuits and split cells caused
by

>> over-charging.
>>
>> Steve G6ALU
>>
>> >----Original Message----
>> >From: absorbentgnome@...
>> >Date: 04/08/2009 11:07
>> >To: <mkars80@...>
>> >Subj: [mkars80] Re: Anti hiss mod for MKARS80 audio amp
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>> with a low dropout schottky diode (3A) in parallel with it with
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>> cathode connected at the - battery pad end gives the required
>> performance for my arrangement. 12 AAA Nicad cells are used in my
>> radio, initially I used 10 AAA cells however the voltage dropped
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>> much under TX load to give a decent amount of RF power. To charge
the
>> batteries a 16V dc supply is required. On external power at 16V,
the
>> radio will generate 8-10W of RF. On battery power it will generate
5W.
>> >Power from the internal cells can be drawn via the power socket
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>> any external units. The diode allows a decent voltage and current
flow
>> when a jack is plugged in to power the external CW unit and the
radio
>> itself when external power is disconnected (opening the switch in
the
>> jack).
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>> >I had also added an LCD backlight using a high intensity green
LED
>> connected to the 5V supply on the LCD unit. This draws
approximately
>> 30mA, so there is slightly more heating of the 5V regulator,
however
>> the heat generation is well within the capability of the device.
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>> >Dan.
>> >
>> >--- In mkars80@..., "absorbentgnome"
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>> >>
>> >> Ok there is an issue with the proposed mod, once this is
resolved
>> I'll describe the extra components.

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>> >> --- In mkars80@..., "absorbentgnome"
>> <absorbentgnome@> wrote:
>> >> >
>> >> > If anyone is in the same situation as myself - you have
internal
>> batteries and speaker in the radio and not the cw unit then if you
>> connect a 4.7R 2 watt resistor between the - battery connection
and
>> ground then you will be able to use rechargables (this will charge
at a
>> rate of 100 - 150mA) and the CW unit will run off the power from
the
>> radio unit. Admittedly, the CW unit is running through the 4.7R
>> resistor when on battery power, but this does not seem to have any
>> effect on the CW unit performance.
>> >> >
>> >> > In my CW unit I have installed a speaker that is larger and
>> better than the one I could fit in the radio unit. This allows the
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>> of the CW filter etc and improves the output when the unit is used.
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>> >> > Dan.
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>> >> > --- In mkars80@..., "absorbentgnome"
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>> >> > >
>> >> > > The hiss is definitely from the audio amp and nothing else.
The
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>> >> > >
>> >> > > The radio kit is now boxed up, with an internal speaker and
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>> of batteries.
>> >> > >
>> >> > > Upon completion of the CW adapter kit, it was realised that
>> perhaps the better combination would have been to squeeze the CW
kit
>> into the radio box and have another box for batteries and a
speaker. Oh
>> well - gotta figure out a way to nicely route power from the radio
to
>> the cw kit - the other way around for which it was designed! (doh)
>> >> > >
>> >> > > Dan.
>> >> > >
>> >> > > --- In mkars80@..., "g6alu@" <g6alu@> wrote:

>> >> > > >
>> >> > > > Dan,
>> >> > > >
>> >> > > > I've not noticed hiss to be objectionable - are you using
>> headphones I
>> >> > > > wonder?
>> >> > > >
>> >> > > > Although I guess some HF roll off doesn't go amiss.....
>> >> > > >
>> >> > > > Steve
>> >> > > > G6ALU
>> >> > > >
>> >> > > > >----Original Message----
>> >> > > > >From: absorbentgnome@
>> >> > > > >Date: 24/07/2009 9:14
>> >> > > > >To: <mkars80@...>
>> >> > > > >Subj: [mkars80] Anti hiss mod for MKARS80 audio amp
>> >> > > > >
>> >> > > > >Hi everyone
>> >> > > > >
>> >> > > > >I was a little disappointed with the amount of hiss
coming
>> from the
>> >> > > > LM386 on the MKARS80 kit. An anti-hiss mod sorted out the
>> problem -
>> >> > > > solder a 10k and 10nF capacitor in series between pin 8
of
>> the LM386
>> >> > > > and the negative lead of C2 (the speaker output), This
>> significantly
>> >> > > > reduces the hiss :)
>> >> > > > >
>> >> > > > >I read about a possible AGC mod for the receiver - can
>> anyone post
>> >> > > > the files or email them to me?
>> >> > > > >
>> >> > > > >My transceiver is boxed up now and I am very pleased with
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>> >> > > > Steve!
>> >> > > > >
>> >> > > > >Thanks
>> >> > > > >Dan 2W0UZO
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>> How safe is your data? Find out more about the issues at Tiscali
Security Centre - http://www.tiscali.co.uk/security
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Get away from it all with Tiscali Travel - http://www.tiscali.co.uk/travel

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1037. MKARS80 CW adaptor

Yahoo group: mkars80
Date: 2009-08-10 13:04:04 UTC
From: John
Topic: 1037 Message: 1037

Hello All,

I completed the MKARS80 CW adaptor some time ago and have been using it in PCB form all that time, it works very well indeed. Finally, I have now cased it and will post some photos on the group should anyone be interested.

I decided to use the same case as the MKARS80. Adaptor and keyer controls are mounted on the long edge panel with the MKARS80 siting on top. To keep all control's together I have the keyer speed control in line with the other controls. A speaker in the CW adaptor case will be used for RX on MKARS80 saving carting around an extension one.

73 de John (M0TIF) ...- .-

1038. RE: [mkars80] MKARS80 CW adaptor

Yahoo group: mkars80
Date: 2009-08-10 14:17:17 UTC
From: David White
Topic: 1037 Message: 1038

well i for one would like to see a picture of it john (M0TIF) im sure other MKARS80 builders would too. we dont seem to see so much of you at the club these days mr ex chairman heheheheh de G3ZPA

NNNN

To: mkars80@...
From: John.Housego1@...
Date: Mon, 10 Aug 2009 13:04:04 +0000
Subject: [mkars80] MKARS80 CW adaptor

Hello All,

I completed the MKARS80 CW adaptor some time ago and have been using it in PCB form all that time, it works very well indeed. Finally, I have now cased it and will post some photos on the group should anyone be interested.

I decided to use the same case as the MKARS80. Adaptor and keyer controls are mounted on the long edge panel with the MKARS80 siting on top. To keep all control's together I have the keyer speed control in line with the other controls. A speaker in the CW adaptor case will be used for RX on MKARS80 saving carting around an extension one.

73 de John (M0TIF) ...- .-

_____
Windows Live Messenger: Thanks for 10 great years?enjoy free winks and emoticons.
http://clk.atdmt.com/UKM/go/157562755/direct/01/

[Non-text portions of this message have been removed]

1039. Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-10 15:30:54 UTC
From: absorbentgnome
Topic: 1039 Message: 1039

Just a quick note to say the photos of my station are in the photo gallery.

The radio has an internal speaker and 12 AAA NiMH batteries fitted.
The CW unit is fitted into the same style case as the radio, with a larger upwards facing speaker inside and all controls on the front so that it is all accessible when stacked. A nice big desk mic has been modified to work with it. A windom antenna with choke, 4:1 balun and feeder has been made to go with it. The mic has had a 3.5mm socket fitted so that audio from the computer can be transmitted for digital modes and the headphone socket on the cw unit is used for input into the computer.

Dan.

1040. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-10 15:48:03 UTC
From: John
Topic: 1039 Message: 1040

Hello Dan,

Thanks for the pictures, very nice job, we have chosen almost the same design for cw adaptor case and posted pictures at the same time! Hpe to wrk u CW on MKARS80 some time.

73 de John (M0TIF)

--- In mkars80@yahoogroups.co.uk, "absorbentgnome" <absorbentgnome@...> wrote:
>
> Just a quick note to say the photos of my station are in the photo gallery.
>
> The radio has an internal speaker and 12 AAA NiMH batteries fitted.
> The CW unit is fitted into the same style case as the radio, with a larger upwards facing speaker inside and all controls on the front so that it is all accessible when stacked. A nice big desk mic has been modified to work with it. A windom antenna with choke, 4:1 balun and feeder has been made to go with it. The mic has had a 3.5mm socket fitted so that audio from the computer can be transmitted for digital modes and the headphone socket on the cw unit is used for input into the computer.
>
> Dan.
>

1041. Re: Display location

Yahoo group: mkars80
Date: 2009-08-10 16:49:22 UTC
From: richarddawson64
Topic: 1030 Message: 1041

```
--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Don't drill any hles Richard they are all there - or should be in any case!
>
> Look at the solder side of the PCB, with the controls towards the bottom you
> will see a 2.5mm hole in the top left corner.
>
> Come back to me if you are unsure and I will send you a photo.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "richarddawson64" <richarddawson64@...>
> To: <mkars80@...>
> Sent: Sunday, August 09, 2009 8:00 PM
> Subject: [mkars80] Display location
>
>
> > Page 11:
> > 'Fit the display using a single screw in the top left hand corner' The
> > only hole in the pcb is that for checking the 10MHz frequency, do we use
> > it? Drilling another one would be hazardous to say the least
> > Ricahrd m0drb
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> ------------------------------------------------------------------------------
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>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.48/2291 - Release Date: 08/08/09
> 18:17:00
>
```

1042. Display location

Yahoo group: mkars80
Date: 2009-08-10 16:51:58 UTC
From: richarddawson64
Topic: 1030 Message: 1042

Yes, thanks Steve, I see it now. It is further away from the display location than I expected. I ahd no intention of drilling any holes but could not see whast to do.
Richard m0drb

1043. Re: [mkars80] Re: Low sensitivity

Yahoo group: mkars80
Date: 2009-08-10 17:34:21 UTC
From: Steve Drury
Topic: 1032 Message: 1043

Hi Eric, thats a new problem, any how I'm glad its OK now.

Steve G6ALU

----- Original Message -----
From: "pa3ecn" <eric.vink@...>
To: <mkars80@...>
Sent: Monday, August 10, 2009 12:19 PM
Subject: [mkars80] Re: Low sensitivity

> Hello,
>
> thanks for the reply Steve.
> I found the problem around Q15. Q15 is the transistor/amplifier before the
> crystal filter and that explains the low sensitivity. The problem was a
> reversed mounted diode D8.
> Sensitivity now seems normal.
>
> Thanks for the help!
>
> 73 - Eric
> PA3ECN
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date: 08/10/09
06:10:00

1044. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-10 17:41:26 UTC
From: absorbentgnome
Topic: 1039 Message: 1044

Hi thanks John I'll have a look in the gallery at your photos.
Did you have lucky placement so that the electronic keyer battery just fitted between two electrolytics on the adaptor board? ;)
I fitted it all in without the battery then noticed later upon final assembly!
Dan.

--- In mkars80@yahoogroups.co.uk, "John" <John.Housego1@...> wrote:
>
> Hello Dan,
>
> Thanks for the pictures, very nice job, we have chosen almost the same design for cw adaptor case and posted pictures at the same time! Hpe to wrk u CW on MKARS80 some time.
>
> 73 de John (M0TIF)
>
> --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> >
> > Just a quick note to say the photos of my station are in the photo gallery.
> >
> > The radio has an internal speaker and 12 AAA NiMH batteries fitted.
> > The CW unit is fitted into the same style case as the radio, with a larger upwards facing speaker inside and all controls on the front so that it is all accessible when stacked. A nice big desk mic has been modified to work with it. A windom antenna with choke, 4:1 balun and feeder has been made to go with it. The mic has had a 3.5mm socket fitted so that audio from the computer can be transmitted for digital modes and the headphone socket on the cw unit is used for input into the computer.
> >
> > Dan.
> >
>

1045. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-10 19:14:52 UTC
From: absorbentgnome
Topic: 1039 Message: 1045

Had a look at your arrangement, its different so you probably won't have had that 'lucky miss' of board and component arrangement. Looks like a tidy job. I will have to get some acetate and a program suitable for making some decent front panels and labels.

Learning CW at the moment, haven't got anyone to practice with so if you or anyone else knows someone who wants to learn and have some slow practice qso's (heh preferably on an MKARS80) then please get in touch.

Dan 2W0UZO

--- In mkars80@..., "absorbentgnome" <absorbentgnome@...> wrote:
>
> Hi thanks John I'll have a look in the gallery at your photos.
> Did you have lucky placement so that the electronic keyer battery just fitted between two electrolytics on the adaptor board? ;)
> I fitted it all in without the battery then noticed later upon final assembly!
> Dan.
>
> --- In mkars80@..., "John" <John.Housego1@> wrote:
> >
> > Hello Dan,
> >
> > Thanks for the pictures, very nice job, we have chosen almost the same design for cw adaptor case and posted pictures at the same time! Hpe to wrk u CW on MKARS80 some time.
> >
> > 73 de John (M0TIF)
> >
> > --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> > >
> > > Just a quick note to say the photos of my station are in the photo gallery.
> > >
> > > The radio has an internal speaker and 12 AAA NiMH batteries fitted.
> > > The CW unit is fitted into the same style case as the radio, with a larger upwards facing speaker inside and all controls on the front so that it is all accessible when stacked. A nice big desk mic has been modified to work with it. A windom antenna with choke, 4:1 balun and feeder has been made to go with it. The mic has had a 3.5mm socket fitted so that audio from the computer can be transmitted for digital modes and the headphone socket on the cw unit is used for input into the computer.
> > >
> > > Dan.
> > >
> >
>

1046. transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 19:46:36 UTC
From: g7vhj
Topic: 1046 Message: 1046

I am hoping someone can help me please,
The radio has been running for a couple of months on rx but i only tried tx on it the other day with a local chap.
It sounds awful so i am told and it can't be resolved into clean audio.

I have checked the usual joints etc but i have come up against a wall any ideas greatfully recieved.
Pete G7VHJ

1047. Re: transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 20:58:34 UTC
From: absorbentgnome
Topic: 1046 Message: 1047

What type of microphone are you using? I tried an electret mic out of a handsfree kit and a dynamic studio mic. The dynamic mic was terrible, level was too low, audio too bassy. The electret one was excellent though, gave real good punch where its necessary. Can you monitor it on another receiver to hear it? I use headphones on the receiving unit to prevent feedback.

--- In mkars80@..., "g7vhj" <g7vhj@...> wrote:
>
> I am hoping someone can help me please,
> The radio has been running for a couple of months on rx but i only tried tx on it the other day with a local chap.
> It sounds awful so i am told and it can't be resolved into clean audio.
>
> I have checked the usual joints etc but i have come up against a wall any ideas greatfully recieved.
> Pete G7VHJ
>

1048. Re: [mkars80] transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 21:32:08 UTC
From: Steve Drury
Topic: 1046 Message: 1048

Pete,
Has it been set up as per the manual, there are 3 important adjustments:
1.. BFO frequency - if possible set it up for 10MHz at TP10MHz - maladjustment could cause muffled audio on TX.
2.. Output transistor bias - adjust for a 50mA increase in current whilst in TX mode, see the manual for full instructions - too little current (not adjusted) will cause horrible distorted audio.
3.. Mixer null adjustment - this is adjusted to reduce the carrier to a minimum - again see the manual. Maladjustment will cause a "whistle" on your transmission if tuned slightly off frequency.
Steve G6ALU

----- Original Message -----
From: "g7vhj" <g7vhj@...>
To: <mkars80@...>
Sent: Monday, August 10, 2009 8:46 PM
Subject: [mkars80] transmitted audio

>I am hoping someone can help me please,
> The radio has been running for a couple of months on rx but i only tried tx on it the other day with a local chap.
> It sounds awful so i am told and it can't be resolved into clean audio.
>
> I have checked the usual joints etc but i have come up against a wall any ideas greatfully recieved.
> Pete G7VHJ
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date: 08/10/09 06:10:00

[Non-text portions of this message have been removed]

1049. Re: transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 21:39:28 UTC
From: g7vhj
Topic: 1046 Message: 1049

Hi Steve,
yes it has been set up as the manual using test equipment at work i.e scope, and spectrum analyzer for the 10MHz test point (i don't trust the workks frequency counter).

Although i spend most of my time tunning tx and rx modules i must admit i struggled a bit with the mixer null adjustment and so did my collegue. although i will try again tomorrow.

thanks Pete G7VHJ

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Pete,
> Has it been set up as per the manual, there are 3 important adjustments:
> 1.. BFO frequency - if possible set it up for 10MHz at TP10MHz - maladjustment could cause muffled audio on TX.
> 2.. Output transistor bias - adjust for a 50mA increase in current whilst in TX mode, see the manual for full instructions - too little current (not adjusted) will cause horrible distorted audio.
> 3.. Mixer null adjustment - this is adjusted to reduce the carrier to a minimum - again see the manual. Maladjustment will cause a "whistle" on your transmission if tuned slightly off frequency.
> Steve G6ALU
>
> ----- Original Message -----
> From: "g7vhj" <g7vhj@...>
> To: <mkars80@...>
> Sent: Monday, August 10, 2009 8:46 PM
> Subject: [mkars80] transmitted audio
>
>
> >I am hoping someone can help me please,
> > The radio has been running for a couple of months on rx but i only tried tx on it the other day with a local chap.
> > It sounds awful so i am told and it can't be resolved into clean audio.
> >
> > I have checked the usual joints etc but i have come up against a wall any ideas greatfully recieved.
> > Pete G7VHJ
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> ---
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date: 08/10/09 06:10:00
>
>
> [Non-text portions of this message have been removed]
>

1050. Re: transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 21:42:23 UTC
From: g7vhj
Topic: 1046 Message: 1050

Sorry i should have said i am using an electret mike and i have tried a few just to see if they make any difference, and to me it sounds ok using both a scanner and receiver when in close range it seems to be worse with a bit of distance (50 feet) or so.

regards Pete G7VHJ

--- In mkars80@yahoogroups.co.uk, "absorbentgnome" <absorbentgnome@...> wrote:
>
> What type of microphone are you using? I tried an electret mic out of a handsfree kit and a dynamic studio mic. The dynamic mic was terrible, level was too low, audio too bassy. The electret one was excellent though, gave real good punch where its necessary. Can you monitor it on another receiver to hear it? I use headphones on the receiving unit to prevent feedback.
>
> --- In mkars80@yahoogroups.co.uk, "g7vhj" <g7vhj@> wrote:
> >
> > I am hoping someone can help me please,
> > The radio has been running for a couple of months on rx but i only tried tx on it the other day with a local chap.
> > It sounds awful so i am told and it can't be resolved into clean audio.
> >
> > I have checked the usual joints etc but i have come up against a wall any ideas greatfully recieved.
> > Pete G7VHJ
> >
>

1051. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-10 21:57:45 UTC
From: g3oth
Topic: 1039 Message: 1051

Hi Dan and John, I enjoyed looking at your photos of your CW adapter assemblies in the Photo Gallery, I think I may also go down the route of using one of Steve's MKARS80 cases to package my adapter now that you have shown how it could be done. My PCB assembly is still in one piece here as I didnt want to separate the 3 boards out until I had decided how I was going to package them. Having seen your photos I have no excuse now and have finally decided that I will keep the autokeyer with the rest of the CW adapter rather than package it in a separate box. Only one comment Dan I noticed that the displayed voltage from presumably your 12 fully charged NiMH cells was much more than I would have been comfortable with, so hope you get away with it ok. I had been thinking more in terms of using a bank of 10 but their volts do get a bit lower than perhaps is desirable when nearly discharged. Have you thought of perhaps using a relatively larger resistor between the bank of 12 cells and your charging source so that the cells can be on permanent trickle charge, and using an emitter follower power transistor with base connected to the cells, its collector to the external charging source and emitter to the MKARS80 and CW adapter etc power rail. This way you loose a Vbe drop from the cells which is a good thing, but still allow the cells to safely trickle charge, and also allow most of the current available from the charging source to drive the Radio at a safe voltage via the transistor when in use, but will also allow maximum current to be drawn from the cells when the charger is removed. As an example a 47 ohm 1 watt resistor would provide say a 100mA trickle charge for a voltage drop of about 4.7 volts between say a 20 volt charging source and your 15.3 volt nominal battery and any 10 watt 2 Amp NPN power transistor screwed to the case would be happy to provide current to the Radio when used.
73 de Charles G3OTH

--- In mkars80@..., "absorbentgnome" <absorbentgnome@...> wrote:
>
> Had a look at your arrangement, its different so you probably won't have had that 'lucky miss' of board and component arrangement. Looks like a tidy job. I will have to get some acetate and a program suitable for making some decent front panels and labels.
>
> Learning CW at the moment, haven't got anyone to practice with so if you or anyone else knows someone who wants to learn and have some slow practice qso's (heh preferably on an MKARS80) then please get in touch.
>
> Dan 2W0UZO
>
> --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> >
> > Hi thanks John I'll have a look in the gallery at your photos.
> > Did you have lucky placement so that the electronic keyer battery just fitted between two electrolytics on the adaptor board? ;)
> > I fitted it all in without the battery then noticed later upon final assembly!
> > Dan.
> >
> > --- In mkars80@yahoogroups.co.uk, "John" <John.Housego1@> wrote:

> > >
> > > Hello Dan,
> > >
> > > Thanks for the pictures, very nice job, we have chosen almost the same design for cw adaptor case and posted pictures at the same time! Hpe to wrk u CW on MKARS80 some time.
> > >
> > > 73 de John (M0TIF)
> > >
> > > --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> > > >
> > > > Just a quick note to say the photos of my station are in the photo gallery.
> > > >
> > > > The radio has an internal speaker and 12 AAA NiMH batteries fitted.
> > > > The CW unit is fitted into the same style case as the radio, with a larger upwards facing speaker inside and all controls on the front so that it is all accessible when stacked. A nice big desk mic has been modified to work with it. A windom antenna with choke, 4:1 balun and feeder has been made to go with it. The mic has had a 3.5mm socket fitted so that audio from the computer can be transmitted for digital modes and the headphone socket on the cw unit is used for input into the computer.
> > > >
> > > > Dan.
> > > >
> > > >
> > >
> >
>

1052. Re: [mkars80] Re: transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 21:58:06 UTC
From: Steve Drury
Topic: 1046 Message: 1052

Pete,
Can you describe the symptoms?
Steve

----- Original Message -----
From: "g7vhj" <g7vhj@...>
To: <mkars80@...>
Sent: Monday, August 10, 2009 10:42 PM
Subject: [mkars80] Re: transmitted audio

> Sorry i should have said i am using an electret mike and i have tried a
> few just to see if they make any difference, and to me it sounds ok using
> both a scanner and receiver when in close range it seems to be worse with
> a bit of distance (50 feet) or so.
>
> regards Pete G7VHJ
>
> --- In mkars80@..., "absorbentgnome" <absorbentgnome@...>
> wrote:
>>
>> What type of microphone are you using? I tried an electret mic out of a
>> handsfree kit and a dynamic studio mic. The dynamic mic was terrible,
>> level was too low, audio too bassy. The electret one was excellent
>> though, gave real good punch where its necessary. Can you monitor it on
>> another receiver to hear it? I use headphones on the receiving unit to
>> prevent feedback.
>>
>> --- In mkars80@..., "g7vhj" <g7vhj@> wrote:
>> >
>> > I am hoping someone can help me please,
>> > The radio has been running for a couple of months on rx but i only
>> > tried tx on it the other day with a local chap.
>> > It sounds awful so i am told and it can't be resolved into clean audio.
>> >
>> > I have checked the usual joints etc but i have come up against a wall
>> > any ideas greatfully recieved.
>> > Pete G7VHJ
>> >
>>
>
>
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>

> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date: 08/10/09
06:10:00

1053. Re: transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 22:11:02 UTC
From: g7vhj
Topic: 1046 Message: 1053

Hi Steve,
iv'e been told that the audio is very "wooly" sounding and the chap i was trying to talk to told me that he couldn't resolve the audio by checking either side of the frequency that we were on.

I am confident that the radio is setup at 10Mhz as the spectrum i use is callibrated, the frequncy counter i have at work is only slightly off but not callibrated.

and the current increase was checked with a shorted plug to create the tx and psu and dmm used in conjuction with each other to confirm the increase
thanks again Pete

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Pete,
> Can you describe the symptoms?
> Steve
>
> ----- Original Message -----
> From: "g7vhj" <g7vhj@...>
> To: <mkars80@....uk>
> Sent: Monday, August 10, 2009 10:42 PM
> Subject: [mkars80] Re: transmitted audio
>
>
> > Sorry i should have said i am using an electret mike and i have tried a
> > few just to see if they make any difference, and to me it sounds ok using
> > both a scanner and receiver when in close range it seems to be worse with
> > a bit of distance (50 feet) or so.
> >
> > regards Pete G7VHJ
> >
> > --- In mkars80@..., "absorbentgnome" <absorbentgnome@>
> > wrote:
> >>
> >> What type of microphone are you using? I tried an electret mic out of a
> >> handsfree kit and a dynamic studio mic. The dynamic mic was terrible,
> >> level was too low, audio too bassy. The electret one was excellent
> >> though, gave real good punch where its necessary. Can you monitor it on
> >> another receiver to hear it? I use headphones on the receiving unit to
> >> prevent feedback.
> >>
> >> --- In mkars80@..., "g7vhj" <g7vhj@> wrote:
> >> >
> >> > I am hoping someone can help me please,
> >> > The radio has been running for a couple of months on rx but i only

> >> > tried tx on it the other day with a local chap.
> >> > It sounds awful so i am told and it can't be resolved into clean audio.
> >> >
> >> > I have checked the usual joints etc but i have come up against a wall
> >> > any ideas greatfully recieved.
> >> > Pete G7VHJ
> >> >
> >>
> >
> >
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date: 08/10/09
> 06:10:00
>

1054. Re: [mkars80] Re: transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 22:18:04 UTC
From: Steve Drury
Topic: 1046 Message: 1054

Does the spectrum analyser have a frequency counter?

Another question:

Tune across a strong heterodyne (CW tone); if you tune low in frequency past the zero Hz point do you then hear the tone come up in frequency?

Steve G6ALU

----- Original Message -----
From: "g7vhj" <g7vhj@...>
To: <mkars80@...>
Sent: Monday, August 10, 2009 11:11 PM
Subject: [mkars80] Re: transmitted audio

> Hi Steve,
> iv'e been told that the audio is very "wooly" sounding and the chap i was
> trying to talk to told me that he couldn't resolve the audio by checking
> either side of the frequency that we were on.
>
> I am confident that the radio is setup at 10Mhz as the spectrum i use is
> callibrated, the frequncy counter i have at work is only slightly off but
> not callibrated.
>
> and the current increase was checked with a shorted plug to create the tx
> and psu and dmm used in conjuction with each other to confirm the increase
> thanks again Pete
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Pete,
>> Can you describe the symptoms?
>> Steve
>>
>> ----- Original Message -----
>> From: "g7vhj" <g7vhj@...>
>> To: <mkars80@...>
>> Sent: Monday, August 10, 2009 10:42 PM
>> Subject: [mkars80] Re: transmitted audio
>>
>>
>> > Sorry i should have said i am using an electret mike and i have tried a
>> > few just to see if they make any difference, and to me it sounds ok
>> > using
>> > both a scanner and receiver when in close range it seems to be worse

>> > with
>> > a bit of distance (50 feet) or so.
>> >
>> > regards Pete G7VHJ
>> >
>> > --- In mkars80@..., "absorbentgnome" <absorbentgnome@>
>> > wrote:
>> >>
>> >> What type of microphone are you using? I tried an electret mic out of
>> >> a
>> >> handsfree kit and a dynamic studio mic. The dynamic mic was terrible,
>> >> level was too low, audio too bassy. The electret one was excellent
>> >> though, gave real good punch where its necessary. Can you monitor it
>> >> on
>> >> another receiver to hear it? I use headphones on the receiving unit to
>> >> prevent feedback.
>> >>
>> >> --- In mkars80@..., "g7vhj" <g7vhj@> wrote:
>> >> >
>> >> > I am hoping someone can help me please,
>> >> > The radio has been running for a couple of months on rx but i only
>> >> > tried tx on it the other day with a local chap.
>> >> > It sounds awful so i am told and it can't be resolved into clean
>> >> > audio.
>> >> >
>> >> > I have checked the usual joints etc but i have come up against a
>> >> > wall
>> >> > any ideas greatfully recieved.
>> >> > Pete G7VHJ
>> >> >
>> >>
>> >
>> >
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
>> >
>> >
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>> >>
>> >>
>> >> --
>> >>
>> >>
>> >>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date:

>> 08/10/09
>> 06:10:00
>>
>
>
>
>
> ------------------------------------
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>
>
>

No virus found in this incoming message.
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06:10:00

1055. Re: transmitted audio

Yahoo group: mkars80
Date: 2009-08-10 22:26:11 UTC
From: g7vhj
Topic: 1046 Message: 1055

Yes to the first question and i haven't tried the second option yet but all seems to work as i would expect it too

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Does the spectrum analyser have a frequency counter?
>
> Another question:
>
> Tune across a strong heterodyne (CW tone); if you tune low in frequency past
> the zero Hz point do you then hear the tone come up in frequency?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g7vhj" <g7vhj@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Monday, August 10, 2009 11:11 PM
> Subject: [mkars80] Re: transmitted audio
>
>
> > Hi Steve,
> > iv'e been told that the audio is very "wooly" sounding and the chap i was
> > trying to talk to told me that he couldn't resolve the audio by checking
> > either side of the frequency that we were on.
> >
> > I am confident that the radio is setup at 10Mhz as the spectrum i use is
> > callibrated, the frequncy counter i have at work is only slightly off but
> > not callibrated.
> >
> > and the current increase was checked with a shorted plug to create the tx
> > and psu and dmm used in conjuction with each other to confirm the increase
> > thanks again Pete
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Pete,
> >> Can you describe the symptoms?
> >> Steve
> >>
> >> ----- Original Message -----
> >> From: "g7vhj" <g7vhj@>
> >> To: <mkars80@...>
> >> Sent: Monday, August 10, 2009 10:42 PM

> >> Subject: [mkars80] Re: transmitted audio
> >>
> >>
> >> > Sorry i should have said i am using an electret mike and i have tried a
> >> > few just to see if they make any difference, and to me it sounds ok
> >> > using
> >> > both a scanner and receiver when in close range it seems to be worse
> >> > with
> >> > a bit of distance (50 feet) or so.
> >> >
> >> > regards Pete G7VHJ
> >> >
> >> > --- In mkars80@..., "absorbentgnome" <absorbentgnome@>
> >> > wrote:
> >> >>
> >> >> What type of microphone are you using? I tried an electret mic out of
> >> >> a
> >> >> handsfree kit and a dynamic studio mic. The dynamic mic was terrible,
> >> >> level was too low, audio too bassy. The electret one was excellent
> >> >> though, gave real good punch where its necessary. Can you monitor it
> >> >> on
> >> >> another receiver to hear it? I use headphones on the receiving unit to
> >> >> prevent feedback.
> >> >>
> >> >> --- In mkars80@....uk, "g7vhj" <g7vhj@> wrote:
> >> >> >
> >> >> > I am hoping someone can help me please,
> >> >> > The radio has been running for a couple of months on rx but i only
> >> >> > tried tx on it the other day with a local chap.
> >> >> > It sounds awful so i am told and it can't be resolved into clean
> >> >> > audio.
> >> >> >
> >> >> > I have checked the usual joints etc but i have come up against a
> >> >> > wall
> >> >> > any ideas greatfully recieved.
> >> >> > Pete G7VHJ
> >> >> >
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> >> ---
> >>
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> >> Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date:
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> 06:10:00
>

1056. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-10 22:36:59 UTC
From: absorbentgnome
Topic: 1039 Message: 1056

Hi Charles

I tried 10 cells, but the voltage dropped too much on transmit and resulted in low power output. Once the cells started to discharge the voltage dropped further and output power even lower, so from my experience I would not try 10 cells.

The upper voltage limit is 16V, I run it at 16 to 16.5. Will caps blow up? Time will tell i suppose - but you do get a very healthy power output at 16V ;)

Good idea with the emitter follower.

I found that even the slightest voltage drop limited output power quite a lot, so wanted to avoid as little vdrop as possible.

I am wondering if the voltage across the cells is enough to charge them fully. If it is not, then I will implement your suggestion.

Thanks
Dan

--- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@...> wrote:
>
> Hi Dan and John, I enjoyed looking at your photos of your CW adapter assemblies in the Photo Gallery, I think I may also go down the route of using one of Steve's MKARS80 cases to package my adapter now that you have shown how it could be done. My PCB assembly is still in one piece here as I didnt want to separate the 3 boards out until I had decided how I was going to package them. Having seen your photos I have no excuse now and have finally decided that I will keep the autokeyer with the rest of the CW adapter rather than package it in a separate box. Only one comment Dan I noticed that the displayed voltage from presumably your 12 fully charged NiMH cells was much more than I would have been comfortable with, so hope you get away with it ok. I had been thinking more in terms of using a bank of 10 but their volts do get a bit lower than perhaps is desirable when nearly discharged. Have you thought of perhaps using a relatively larger resistor between the bank of 12 cells and your charging source so that the cells can be on permanent trickle charge, and using an emitter follower power transistor with base connected to the cells, its collector to the external charging source and emitter to the MKARS80 and CW adapter etc power rail. This way you loose a Vbe drop from the cells which is a good thing, but still allow the cells to safely trickle charge, and also allow most of the current available from the charging source to drive the Radio at a safe voltage via the transistor when in use, but will also allow maximum current to be drawn from the cells when the charger is removed. As an example a 47 ohm 1 watt resistor would provide say a 100mA trickle charge for a voltage drop of about 4.7 volts between say a 20 volt charging source and your 15.3 volt nominal battery and any 10 watt 2 Amp NPN power transistor screwed to the case would be happy to provide current to the Radio when used.
> 73 de Charles G3OTH
>
> --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:

> >
> > Had a look at your arrangement, its different so you probably won't have had that 'lucky miss' of board and component arrangement. Looks like a tidy job. I will have to get some acetate and a program suitable for making some decent front panels and labels.
> >
> > Learning CW at the moment, haven't got anyone to practice with so if you or anyone else knows someone who wants to learn and have some slow practice qso's (heh preferably on an MKARS80) then please get in touch.
> >
> > Dan 2W0UZO
> >
> > --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> > >
> > > Hi thanks John I'll have a look in the gallery at your photos.
> > > Did you have lucky placement so that the electronic keyer battery just fitted between two electrolytics on the adaptor board? ;)
> > > I fitted it all in without the battery then noticed later upon final assembly!
> > > Dan.
> > >
> > > --- In mkars80@..., "John" <John.Housego1@> wrote:
> > > >
> > > > Hello Dan,
> > > >
> > > > Thanks for the pictures, very nice job, we have chosen almost the same design for cw adaptor case and posted pictures at the same time! Hpe to wrk u CW on MKARS80 some time.
> > > >
> > > > 73 de John (M0TIF)
> > > >
> > > > --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> > > > >
> > > > > Just a quick note to say the photos of my station are in the photo gallery.
> > > > >
> > > > > The radio has an internal speaker and 12 AAA NiMH batteries fitted.
> > > > > The CW unit is fitted into the same style case as the radio, with a larger upwards facing speaker inside and all controls on the front so that it is all accessible when stacked. A nice big desk mic has been modified to work with it. A windom antenna with choke, 4:1 balun and feeder has been made to go with it. The mic has had a 3.5mm socket fitted so that audio from the computer can be transmitted for digital modes and the headphone socket on the cw unit is used for input into the computer.
> > > > >
> > > > > Dan.
> > > > >
> > > >
> > >
> > >
> >
> >
>

1057. Re: [mkars80] Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 08:44:29 UTC
From: John Housego
Topic: 1039 Message: 1057

Hello Dan,

I have the lithium battery mounted off the board as indeed it touched some of the components on the adaptor board, I also mounted the speed control off board so its in line with other controls other than that we have about the same design.

OK on the Morse practice I wish you all the success with that, I one bit of advice I would give is do 15 mins of practice a day EVERY DAY using whatever practice method suites you. I know we all lead busy lives but I am sure one can squeeze in 15 mins a day, it really will pay off. There are many systems to practice with its a case of choosing one that suits you best, a couple of suggestions are: the free web based www.Icwo.net which is excellent or NuMorse (Google it) there is a charge for this package to enable more features. Also start reading car number plates and advertising boards etc in CW in your head. You may find a few locals also learning CW maybe get together with them at your local club for some encouragement.

Good luck

John (M0TIF)

On Mon, 2009-08-10 at 19:14 +0000, absorbentgnome wrote:

>
>
> Had a look at your arrangement, its different so you probably won't
> have had that 'lucky miss' of board and component arrangement. Looks
> like a tidy job. I will have to get some acetate and a program
> suitable for making some decent front panels and labels.
>
> Learning CW at the moment, haven't got anyone to practice with so if
> you or anyone else knows someone who wants to learn and have some slow
> practice qso's (heh preferably on an MKARS80) then please get in
> touch.
>
> Dan 2W0UZO
>
> --- In mkars80@..., "absorbentgnome"
> <absorbentgnome@...> wrote:
> >
> > Hi thanks John I'll have a look in the gallery at your photos.
> > Did you have lucky placement so that the electronic keyer battery
> just fitted between two electrolytics on the adaptor board? ;)
> > I fitted it all in without the battery then noticed later upon final

> assembly!
> > Dan.
> >
> > --- In mkars80@..., "John" <John.Housego1@> wrote:
> > >
> > > Hello Dan,
> > >
> > > Thanks for the pictures, very nice job, we have chosen almost the
> same design for cw adaptor case and posted pictures at the same time!
> Hpe to wrk u CW on MKARS80 some time.
> > >
> > > 73 de John (M0TIF)
> > >
> > > --- In mkars80@..., "absorbentgnome"
> <absorbentgnome@> wrote:
> > > >
> > > > Just a quick note to say the photos of my station are in the
> photo gallery.
> > > >
> > > > The radio has an internal speaker and 12 AAA NiMH batteries
> fitted.
> > > > The CW unit is fitted into the same style case as the radio,
> with a larger upwards facing speaker inside and all controls on the
> front so that it is all accessible when stacked. A nice big desk mic
> has been modified to work with it. A windom antenna with choke, 4:1
> balun and feeder has been made to go with it. The mic has had a 3.5mm
> socket fitted so that audio from the computer can be transmitted for
> digital modes and the headphone socket on the cw unit is used for
> input into the computer.
> > > >
> > > > Dan.
> > > >
> > >
> > >
> >
>
>
>
>
>

[Non-text portions of this message have been removed]

1058. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 10:32:06 UTC
From: absorbentgnome
Topic: 1039 Message: 1058

I had the radio open this morning so had a look at the caps. The lowest voltage rating cap in my unit is 25V.

Increased voltage will have greater dissipation in the regulators. Currently with the backlight LED the dissipation is OK.

The relay coil will heat more at 16V on tx. Is this a problem? Unsure. There will be increased dissipation on all the transistor circuits connected to RX/TX12V.

A continuous TX at full power at 16V leads to heating of the transformer in the final and the filter inductors. I have a small amount of hot glue on each inductor/transformer to fix it to the board. From several continuous output TX tests at 10 minutes the glue has clearly softened and moved. The components are unsuitable for 100% duty cycle at 16V, perhaps I have been overdriving a little and introducing distortion?

Some more poking around had shown that Q5 is dissipating a fair amount of heat in my radio. Reducing the voltage to 13.8V still results in the device getting hot enough to hurt my finger. I have checked the components and found no mistakes, maybe a problem with T1?
The symptom of this is under TX, when driving the final into saturation such that the LED extinguishes, as time goes by and Q5 heats, the mod LED will gradually light up.

In the meantime I have fashioned a copper heatsink to dissipate the heat. Has anyone else found Q5 to heat considerably?

Dan.

--- In mkars80@..., "absorbentgnome" <absorbentgnome@...> wrote:
>
> Hi Charles
>
> I tried 10 cells, but the voltage dropped too much on transmit and resulted in low power output. Once the cells started to discharge the voltage dropped further and output power even lower, so from my experience I would not try 10 cells.
>
> The upper voltage limit is 16V, I run it at 16 to 16.5. Will caps blow up? Time will tell i suppose - but you do get a very healthy power output at 16V ;)
>
> Good idea with the emitter follower.
>
> I found that even the slightest voltage drop limited output power quite a lot, so wanted to avoid as little vdrop as possible.
>
> I am wondering if the voltage across the cells is enough to charge them fully. If it is not, then I will implement your suggestion.
>
> Thanks
> Dan

>
>
>
> --- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@> wrote:
> >
> > Hi Dan and John, I enjoyed looking at your photos of your CW adapter assemblies in the Photo Gallery, I think I may also go down the route of using one of Steve's MKARS80 cases to package my adapter now that you have shown how it could be done. My PCB assembly is still in one piece here as I didnt want to separate the 3 boards out until I had decided how I was going to package them. Having seen your photos I have no excuse now and have finally decided that I will keep the autokeyer with the rest of the CW adapter rather than package it in a separate box. Only one comment Dan I noticed that the displayed voltage from presumably your 12 fully charged NiMH cells was much more than I would have been comfortable with, so hope you get away with it ok. I had been thinking more in terms of using a bank of 10 but their volts do get a bit lower than perhaps is desirable when nearly discharged. Have you thought of perhaps using a relatively larger resistor between the bank of 12 cells and your charging source so that the cells can be on permanent trickle charge, and using an emitter follower power transistor with base connected to the cells, its collector to the external charging source and emitter to the MKARS80 and CW adapter etc power rail. This way you loose a Vbe drop from the cells which is a good thing, but still allow the cells to safely trickle charge, and also allow most of the current available from the charging source to drive the Radio at a safe voltage via the transistor when in use, but will also allow maximum current to be drawn from the cells when the charger is removed. As an example a 47 ohm 1 watt resistor would provide say a 100mA trickle charge for a voltage drop of about 4.7 volts between say a 20 volt charging source and your 15.3 volt nominal battery and any 10 watt 2 Amp NPN power transistor screwed to the case would be happy to provide current to the Radio when used.
> > 73 de Charles G3OTH
> >
> > --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
> > >
> > > Had a look at your arrangement, its different so you probably won't have had that 'lucky miss' of board and component arrangement. Looks like a tidy job. I will have to get some acetate and a program suitable for making some decent front panels and labels.
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> > > Learning CW at the moment, haven't got anyone to practice with so if you or anyone else knows someone who wants to learn and have some slow practice qso's (heh preferably on an MKARS80) then please get in touch.
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> > > Dan 2W0UZO
> > >
> > > --- In mkars80@yahoogroups.co.uk, "absorbentgnome" <absorbentgnome@> wrote:
> > > >
> > > > Hi thanks John I'll have a look in the gallery at your photos.
> > > > Did you have lucky placement so that the electronic keyer battery just fitted between two electrolytics on the adaptor board? ;)
> > > > I fitted it all in without the battery then noticed later upon final assembly!
> > > > Dan.
> > > >
> > > > --- In mkars80@..., "John" <John.Housego1@> wrote:

> > > > >
> > > > > Hello Dan,
> > > > >
> > > > > Thanks for the pictures, very nice job, we have chosen almost the same design for cw adaptor case and posted pictures at the same time! Hpe to wrk u CW on MKARS80 some time.
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> > > > > 73 de John (M0TIF)
> > > > >
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> > > > > >
> > > > > > Just a quick note to say the photos of my station are in the photo gallery.
> > > > > >
> > > > > > The radio has an internal speaker and 12 AAA NiMH batteries fitted.
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> > > > > >
> > > > > > Dan.
> > > > > >
> > > > >
> > > > >
> > > >
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>

1059. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 10:51:34 UTC
From: g3oth
Topic: 1039 Message: 1059

Fine Dan about your findings using 10 cells.
I have just read your earlier postings again and see that you are using AAA types, rather than the AA type which I had thought you were using. In this case if you were to try using my idea I would reduce the trickle charge to 50 mA or so by using say a 100R 1/2 watt resistor. For Nicads I used to use the old rule of thumb of not exceeding 1/10 of mAmpHr rating of cell for continuous trickle charge, but dont know if this still applies to NiMH cells as well. The AA NiMH cells I have here vary from 1800 mAHr to 2500 mAHr depending on their manufacturer, which if so would imply that you could get away with using up to 180mA continuous trickle for them.
Apart from the ratings of the electrolytic caps you mentioned, also remember that the LM386N-1 that Steve supplies has an absolute max voltage supply rating of 15 volts and max operating voltage supply rating of 12 volts according to the National Semiconductors Data sheet, although I am not sure what other manufacturers claim. To be on the safe side particulary if you are also using low ohm speakers you might consider using a LM386N-4 which Doug Hendricks supplies in his BITX20A kit and is rated at up to 22 volts absolute and 18 volts operating respectively. These ICs however dont seem to be stocked by Maplins, Rapid, QRP club etc. so you might have to look father afield for them. Saying that I havent checked out the specs for the PIC and LCD so there could also be issues there using higher voltages.
Something more tro consider and keep an eye on.
73 fer nw de Charles G3OTH

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> Hi Charles
>
> I tried 10 cells, but the voltage dropped too much on transmit and resulted in low power output. Once the cells started to discharge the voltage dropped further and output power even lower, so from my experience I would not try 10 cells.
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> The upper voltage limit is 16V, I run it at 16 to 16.5. Will caps blow up? Time will tell i suppose - but you do get a very healthy power output at 16V ;)
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> Good idea with the emitter follower.
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> I found that even the slightest voltage drop limited output power quite a lot, so wanted to avoid as little vdrop as possible.
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> I am wondering if the voltage across the cells is enough to charge them fully. If it is not, then I will implement your suggestion.
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> Thanks
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> > 73 de Charles G3OTH
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> > --- In mkars80@..., "absorbentgnome" <absorbentgnome@> wrote:
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> > > Had a look at your arrangement, its different so you probably won't have had that 'lucky miss' of board and component arrangement. Looks like a tidy job. I will have to get some acetate and a program suitable for making some decent front panels and labels.
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> > > Learning CW at the moment, haven't got anyone to practice with so if you or anyone else knows someone who wants to learn and have some slow practice qso's (heh preferably on an MKARS80) then please get in touch.
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> > > > > Hello Dan,

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> > > > > Thanks for the pictures, very nice job, we have chosen almost the same design for cw adaptor case and posted pictures at the same time! Hpe to wrk u CW on MKARS80 some time.
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> > > > > 73 de John (M0TIF)
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> > > > > > The radio has an internal speaker and 12 AAA NiMH batteries fitted.
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> > > > > >
> > > > > > Dan.
> > > > > >
> > > > > >
> > > > >
> > > >
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> >
>

1060. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 11:10:47 UTC
From: g3oth
Topic: 1039 Message: 1060

Fine Dan about your findings using 10 cells.
I have just read your earlier postings again and see that you are using AAA types, rather than the AA type which I had thought you were using. In this case if you were to try using my idea I would reduce the trickle charge to 50 mA or so by using say a 100R 1/2 watt resistor. For Nicads I used to use the old rule of thumb of not exceeding 1/10 of mAmpHr rating of cell for continuous trickle charge, but dont know if this still applies to NiMH cells as well. The AA NiMH cells I have here vary from 1800 mAHr to 2500 mAHr depending on their manufacturer, which if so would imply that you could get away with using up to 180mA continuous trickle for them.
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Something more tro consider and keep an eye on.
73 fer nw de Charles G3OTH

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> Hi Charles
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> I am wondering if the voltage across the cells is enough to charge them fully. If it is not, then I will implement your suggestion.
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> Thanks
> Dan
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> --- In mkars80@..., "g3oth" <g3oth@> wrote:
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1061. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 11:10:54 UTC
From: g3oth
Topic: 1039 Message: 1061

Fine Dan about your findings using 10 cells.
I have just read your earlier postings again and see that you are using AAA types, rather than the AA type which I had thought you were using. In this case if you were to try using my idea I would reduce the trickle charge to 50 mA or so by using say a 100R 1/2 watt resistor. For Nicads I used to use the old rule of thumb of not exceeding 1/10 of mAmpHr rating of cell for continuous trickle charge, but dont know if this still applies to NiMH cells as well. The AA NiMH cells I have here vary from 1800 mAHr to 2500 mAHr depending on their manufacturer, which if so would imply that you could get away with using up to 180mA continuous trickle for them.
Apart from the ratings of the electrolytic caps you mentioned, also remember that the LM386N-1 that Steve supplies has an absolute max voltage supply rating of 15 volts and max operating voltage supply rating of 12 volts according to the National Semiconductors Data sheet, although I am not sure what other manufacturers claim. To be on the safe side particulary if you are also using low ohm speakers you might consider using a LM386N-4 which Doug Hendricks supplies in his BITX20A kit and is rated at up to 22 volts absolute and 18 volts operating respectively. These ICs however dont seem to be stocked by Maplins, Rapid, QRP club etc. so you might have to look father afield for them. Saying that I havent checked out the specs for the PIC and LCD so there could also be issues there using higher voltages.
Something more tro consider and keep an eye on.
73 fer nw de Charles G3OTH

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1062. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 11:28:01 UTC
From: absorbentgnome
Topic: 1039 Message: 1062

Ok Charles
All noted on the LM386.
A long time ago I had a 5A power supply, I took the lid off and had a look inside. I discovered the smoothing caps were rated below the unloaded rectified voltage! Some more poking around revealed a 555 timer chip which had 4V more across it than the datasheet's max rating. You would have thought the PSU would not have been very reliable ... but amazingly its still going to this day!
My main worry at the moment is heat dissipation in Q5. Some heatsinking has temporarily fixed the symptoms, but not the problem.

--- In mkars80@..., "g3oth" <g3oth@...> wrote:
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> Fine Dan about your findings using 10 cells.
> I have just read your earlier postings again and see that you are using AAA types, rather than the AA type which I had thought you were using. In this case if you were to try using my idea I would reduce the trickle charge to 50 mA or so by using say a 100R 1/2 watt resistor. For Nicads I used to use the old rule of thumb of not exceeding 1/10 of mAmpHr rating of cell for continuous trickle charge, but dont know if this still applies to NiMH cells as well. The AA NiMH cells I have here vary from 1800 mAHr to 2500 mAHr depending on their manufacturer, which if so would imply that you could get away with using up to 180mA continuous trickle for them.
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> Something more tro consider and keep an eye on.
> 73 fer nw de Charles G3OTH
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> --- In mkars80@yahoogroups.co.uk, "absorbentgnome" <absorbentgnome@> wrote:
> >
> > Hi Charles
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> > Good idea with the emitter follower.
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1063. Re: [mkars80] Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 11:47:01 UTC
From: g6alu@tiscali.co.uk
Topic: 1039 Message: 1063

Yes you are correct Charles - this is something I have gambled on since day one but so far its been OK, even when abused they seem to survive OK! Note I have a 4R7 in series which helps with a small voltage reduction but 15V is perhaps chancing it a little.

If it fails I will send you a new one - we will know what the limit is!

Steve G6ALU

>----Original Message----
>From: absorbentgnome@...
>Date: 11/08/2009 12:28
>To: <mkars80@...>
>Subj: [mkars80] Re: Photos of my MKARS80 portable station up
>
>Ok Charles
>All noted on the LM386.
>A long time ago I had a 5A power supply, I took the lid off and had a look inside. I discovered the smoothing caps were rated below the unloaded rectified voltage! Some more poking around revealed a 555 timer chip which had 4V more across it than the datasheet's max rating. You would have thought the PSU would not have been very reliable ... but amazingly its still going to this day!
>My main worry at the moment is heat dissipation in Q5. Some heatsinking has temporarily fixed the symptoms, but not the problem.
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>> Fine Dan about your findings using 10 cells.
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>Yahoo! Groups Links
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Get away from it all with Tiscali Travel - http://www.tiscali.co.uk/travel
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1064. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 11:57:05 UTC
From: absorbentgnome
Topic: 1039 Message: 1064

Hi Steve

If anything fails its likely to be my own (stupid) fault, so any replacements I will source myself but thankyou for the support!

Have you experienced any heat problems with the Q5 driver before? I am getting significant heating at 13.8V, at higher the heating is even worse.

Dan.

--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:
>
> Yes you are correct Charles - this is something I have gambled on since
> day one but so far its been OK, even when abused they seem to survive
> OK! Note I have a 4R7 in series which helps with a small voltage
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> >Date: 11/08/2009 12:28
> >To: <mkars80@...>
> >Subj: [mkars80] Re: Photos of my MKARS80 portable station up
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> Get away from it all with Tiscali Travel - http://www.tiscali.co.uk/travel
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1065. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 11:59:33 UTC
From: g3oth
Topic: 1039 Message: 1065

Dan I am not sure quite what is going on with Yahoo this morning, as I see that one of my messages has been triplicated and a reply I posted to you earlier has not yet been listed.
As far as Q5 is concerned I have not noticed any undue heating here, although I have usually kept my supply at 12 volts so cant say what would happen should I go higher.
I havent noticed any thermal runaway at this voltage in so much that the LED behaves itself pretty well and the quiescient current does not vary much over a long session.
73 de Charles G3OTH

--- In mkars80@..., "absorbentgnome" <absorbentgnome@...> wrote:
>
> I had the radio open this morning so had a look at the caps. The lowest voltage rating cap in my unit is 25V.
>
> Increased voltage will have greater dissipation in the regulators. Currently with the backlight LED the dissipation is OK.
>
> The relay coil will heat more at 16V on tx. Is this a problem? Unsure. There will be increased dissipation on all the transistor circuits connected to RX/TX12V.
>
> A continuous TX at full power at 16V leads to heating of the transformer in the final and the filter inductors. I have a small amount of hot glue on each inductor/transformer to fix it to the board. From several continuous output TX tests at 10 minutes the glue has clearly softened and moved. The components are unsuitable for 100% duty cycle at 16V, perhaps I have been overdriving a little and introducing distortion?
>
> Some more poking around had shown that Q5 is dissipating a fair amount of heat in my radio. Reducing the voltage to 13.8V still results in the device getting hot enough to hurt my finger. I have checked the components and found no mistakes, maybe a problem with T1?
> The symptom of this is under TX, when driving the final into saturation such that the LED extinguishes, as time goes by and Q5 heats, the mod LED will gradually light up.
>
> In the meantime I have fashioned a copper heatsink to dissipate the heat. Has anyone else found Q5 to heat considerably?
>
> Dan.
>
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> > I tried 10 cells, but the voltage dropped too much on transmit and resulted in low power output. Once the cells started to discharge the voltage dropped further and output power even lower, so from my experience I would not try 10 cells.
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1066. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 12:32:37 UTC
From: g3oth
Topic: 1039 Message: 1066

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> Yes you are correct Charles - this is something I have gambled on since
> day one but so far its been OK, even when abused they seem to survive
> OK! Note I have a 4R7 in series which helps with a small voltage
> reduction but 15V is perhaps chancing it a little.
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> If it fails I will send you a new one - we will know what the limit
> is!
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> Steve G6ALU
>
> >----Original Message----
> >From: absorbentgnome@...
> >Date: 11/08/2009 12:28
> >To: <mkars80@...>
> >Subj: [mkars80] Re: Photos of my MKARS80 portable station up
> >
> >Ok Charles
> >All noted on the LM386.
> >A long time ago I had a 5A power supply, I took the lid off and had a
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> Get away from it all with Tiscali Travel - http://www.tiscali.co.uk/travel
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1067. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 13:08:36 UTC
From: absorbentgnome
Topic: 1039 Message: 1067

Uploaded a few new photos of internals, you can see the heatsink added to Q5 at the bottom left of the picture of the circuit board.

Dan.

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> > the cells to safely trickle charge, and also allow most of the current
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> > Get away from it all with Tiscali Travel - http://www.tiscali.co.uk/travel
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1068. Re: [mkars80] Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 17:10:15 UTC
From: Steve Drury
Topic: 1039 Message: 1068

Q5 will get very warm (hot!) as its running in class A with a reasonable quiescent so will be near its maximum ratings at 13.8V - you may be pushing it beyond them but as yet I haven't had to replace one.

The fact that its "wilting" with the heat does suggest its life will be limited, keeping its leads short will help as most of the heat will be disipated into the PCB.

Steve G6ALU

----- Original Message -----
From: "absorbentgnome" <absorbentgnome@...>
To: <mkars80@...>
Sent: Tuesday, August 11, 2009 12:28 PM
Subject: [mkars80] Re: Photos of my MKARS80 portable station up

> Ok Charles
> All noted on the LM386.
> A long time ago I had a 5A power supply, I took the lid off and had a look
> inside. I discovered the smoothing caps were rated below the unloaded
> rectified voltage! Some more poking around revealed a 555 timer chip which
> had 4V more across it than the datasheet's max rating. You would have
> thought the PSU would not have been very reliable ... but amazingly its
> still going to this day!
> My main worry at the moment is heat dissipation in Q5. Some heatsinking
> has temporarily fixed the symptoms, but not the problem.
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>> Fine Dan about your findings using 10 cells.
>> I have just read your earlier postings again and see that you are using
>> AAA types, rather than the AA type which I had thought you were using. In
>> this case if you were to try using my idea I would reduce the trickle
>> charge to 50 mA or so by using say a 100R 1/2 watt resistor. For Nicads I
>> used to use the old rule of thumb of not exceeding 1/10 of mAmpHr rating
>> of cell for continuous trickle charge, but dont know if this still
>> applies to NiMH cells as well. The AA NiMH cells I have here vary from
>> 1800 mAHr to 2500 mAHr depending on their manufacturer, which if so would
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>> Apart from the ratings of the electrolytic caps you mentioned, also
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date: 08/10/09
06:10:00

1069. Re: Photos of my MKARS80 portable station up

Yahoo group: mkars80
Date: 2009-08-11 19:35:06 UTC
From: absorbentgnome
Topic: 1039 Message: 1069

Ok Steve
The heatsinking has stopped the 'wilting' completely so will leave as is. I'll let the group know if anything goes bang :)
Thanks for the info on Q5. Those ZTX transistors are quite hardy I've seen them run very hot in other equipment too.
Dan.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Q5 will get very warm (hot!) as its running in class A with a reasonable
> quiescent so will be near its maximum ratings at 13.8V - you may be pushing
> it beyond them but as yet I haven't had to replace one.
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> limited, keeping its leads short will help as most of the heat will be
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> To: <mkars80@...>
> Sent: Tuesday, August 11, 2009 12:28 PM
> Subject: [mkars80] Re: Photos of my MKARS80 portable station up
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> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.49/2294 - Release Date: 08/10/09
> 06:10:00
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1070. 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 15:32:37 UTC
From: dagmine
Topic: 1070 Message: 1070

Anyone done any mods to use one of these on 40 meters? Any plans for a 40 meters version in the near futur?

1071. Re: [mkars80] 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 16:22:36 UTC
From: Steve Drury
Topic: 1070 Message: 1071

Funny you ask,

Tried a MKARS40 out today, first contacts were DL and PA...

There is a problem in that the filter bandwidth far too wide, if this can be sorted then I will offer it for sale. It won't be offered as an upgrade though as there is too much danger in damaging the PCB when you change all the components.

Steve G6ALU

----- Original Message -----
From: "dagmine" <davenpam@...>
To: <mkars80@...>
Sent: Saturday, August 15, 2009 4:32 PM
Subject: [mkars80] 40 Meters??

> Anyone done any mods to use one of these on 40 meters? Any plans for a 40
> meters version in the near futur?
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.56/2302 - Release Date: 08/14/09 06:10:00

1072. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 16:26:45 UTC
From: mark2w0jmk
Topic: 1070 Message: 1072

well Steve you are planning on a 40m version you can put my name down for one :-)

Mark 2w0jmk

1073. Re: [mkars80] 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 16:33:04 UTC
From: Davenpam
Topic: 1070 Message: 1073

If it uses the same PCB, I would like a component kit when ready. Last year I purchased two PCBs hoping to source the components here. That takes way to much time I don't have. So if possible if and when the kit is ready I would like to purchase the components only.

Have you seen the awesome job G8EEY did on his MKARS80. Sure wish he would to a full write up on that one.

http://uk.groups.yahoo.com/group/mkars80/photos/album/813048579/pic/1865851803/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc

David N1OMO

Steve Drury wrote:

>
>
> Funny you ask,
>
> Tried a MKARS40 out today, first contacts were DL and PA...
>
> There is a problem in that the filter bandwidth far too wide, if this
> can be
> sorted then I will offer it for sale. It won't be offered as an upgrade
> though as there is too much danger in damaging the PCB when you change
> all
> the components.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "dagmine" <davenpam@... <mailto:davenpam%40megalink.net>>
> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> Sent: Saturday, August 15, 2009 4:32 PM
> Subject: [mkars80] 40 Meters??
>
> > Anyone done any mods to use one of these on 40 meters? Any plans for
> a 40
> > meters version in the near futur?
> > >
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> > > Yahoo! Groups Links
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> ---
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.56/2302 - Release Date:
> 08/14/09
> 06:10:00
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>

1074. Re: [mkars80] 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 16:38:02 UTC
From: Steve Ratzlaff
Topic: 1070 Message: 1074

Which filter is too wide--the RF LPF or the IF crystal filter? If the xtal filter, what IF frequency are you using for the 40M version?
73,
Steve

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Saturday, August 15, 2009 9:22 AM
Subject: Re: [mkars80] 40 Meters??

> Funny you ask,
>
> Tried a MKARS40 out today, first contacts were DL and PA...
>
> There is a problem in that the filter bandwidth far too wide, if this can
> be
> sorted then I will offer it for sale. It won't be offered as an upgrade
> though as there is too much danger in damaging the PCB when you change all
> the components.
>
> Steve G6ALU
>

1075. Re: [mkars80] 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 16:44:14 UTC
From: Steve Drury
Topic: 1070 Message: 1075

Yes, it looks very nice!

If (hopefully when) a kit is available I will sell just the component packs - I intend it to use exactly the same PCB.

Steve G6ALU

----- Original Message -----
From: "Davenpam" <davenpam@...>
To: <mkars80@...>
Sent: Saturday, August 15, 2009 5:33 PM
Subject: Re: [mkars80] 40 Meters??

> If it uses the same PCB, I would like a component kit when ready. Last
> year I purchased two PCBs hoping to source the components here. That
> takes way to much time I don't have. So if possible if and when the kit
> is ready I would like to purchase the components only.
>
> Have you seen the awesome job G8EEY did on his MKARS80. Sure wish he
> would to a full write up on that one.
>
> http://uk.groups.yahoo.com/group/mkars80/photos/album/813048579/pic/1865851803/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc
>
> David N1OMO
>
>
> Steve Drury wrote:
>
>>
>>
>> Funny you ask,
>>
>> Tried a MKARS40 out today, first contacts were DL and PA...
>>
>> There is a problem in that the filter bandwidth far too wide, if this
>> can be
>> sorted then I will offer it for sale. It won't be offered as an upgrade
>> though as there is too much danger in damaging the PCB when you change
>> all
>> the components.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "dagmine" <davenpam@... <mailto:davenpam%40megalink.net>>

>> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
>> Sent: Saturday, August 15, 2009 4:32 PM
>> Subject: [mkars80] 40 Meters??
>>
>> > Anyone done any mods to use one of these on 40 meters? Any plans for
>> a 40
>> > meters version in the near futur?
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.392 / Virus Database: 270.13.56/2302 - Release Date:
>> 08/14/09
>> 06:10:00
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.58/2304 - Release Date: 08/15/09
06:10:00

1076. Re: [mkars80] 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 16:45:06 UTC
From: Steve Drury
Topic: 1070 Message: 1076

Crystal filter, I've set it at 12MHz but haven't yet done any development on
it.

Steve

----- Original Message -----
From: "Steve Ratzlaff" <steveratz@...>
To: <mkars80@...>
Sent: Saturday, August 15, 2009 5:38 PM
Subject: Re: [mkars80] 40 Meters??

> Which filter is too wide--the RF LPF or the IF crystal filter? If the xtal
> filter, what IF frequency are you using for the 40M version?
> 73,
> Steve
>
> ----- Original Message -----
> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Saturday, August 15, 2009 9:22 AM
> Subject: Re: [mkars80] 40 Meters??
>
>
>> Funny you ask,
>>
>> Tried a MKARS40 out today, first contacts were DL and PA...
>>
>> There is a problem in that the filter bandwidth far too wide, if this can
>> be
>> sorted then I will offer it for sale. It won't be offered as an upgrade
>> though as there is too much danger in damaging the PCB when you change
>> all
>> the components.
>>
>> Steve G6ALU
>>
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> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.58/2304 - Release Date: 08/15/09
06:10:00

1077. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 18:32:22 UTC
From: g3oth
Topic: 1070 Message: 1077

Steve, please refresh my memory, I wonder what prompted you to change the IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and just use a lower VFO range ?
I can't remember now if you have covered this before in earlier posts,
VFO harmonics and mixing products ring a bell, or was that connected with using a 9 MHz IF.
Apologies for bringing this up agn if the answer was covered already and lies elsewhere.
73 de Charles G3OTH
P.S. Will try and get on the net tomorrow at 9.30 if condx allow.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Crystal filter, I've set it at 12MHz but haven't yet done any development on
> it.
>
> Steve
>
> ----- Original Message -----
> From: "Steve Ratzlaff" <steveratz@...>
> To: <mkars80@...>
> Sent: Saturday, August 15, 2009 5:38 PM
> Subject: Re: [mkars80] 40 Meters??
>
>
> > Which filter is too wide--the RF LPF or the IF crystal filter? If the xtal
> > filter, what IF frequency are you using for the 40M version?
> > 73,
> > Steve
> >
> > ----- Original Message -----
> > From: "Steve Drury" <g6alu@...>
> > To: <mkars80@yahoogroups.co.uk>
> > Sent: Saturday, August 15, 2009 9:22 AM
> > Subject: Re: [mkars80] 40 Meters??
> >
> >
> > >> Funny you ask,
> > >>
> > >> Tried a MKARS40 out today, first contacts were DL and PA...
> > >>
> > >> There is a problem in that the filter bandwidth far too wide, if this can
> > >> be
> > >> sorted then I will offer it for sale. It won't be offered as an upgrade
> > >> though as there is too much danger in damaging the PCB when you change
> > >> all
> > >> the components.
> > >>

> >> Steve G6ALU
> >>
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.392 / Virus Database: 270.13.58/2304 - Release Date: 08/15/09
> 06:10:00
>

1078. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 20:22:27 UTC
From: Steve Drury
Topic: 1070 Message: 1078

Main problem I thought was with a 10MHz IF the VFO would have to run at 2.8 - 3MHz, the second harmonic at 6MHz may be hard to filter out of the TX spectra. I may be wrong though so might be worth another visit as it looks like the 10MHz IF is superior to 12MHz.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Saturday, August 15, 2009 7:32 PM
Subject: [mkars80] Re: 40 Meters??

> Steve, please refresh my memory, I wonder what prompted you to change the
> IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and just
> use a lower VFO range ?
> I can't remember now if you have covered this before in earlier posts,
> VFO harmonics and mixing products ring a bell, or was that connected with
> using a 9 MHz IF.
> Apologies for bringing this up agn if the answer was covered already and
> lies elsewhere.
> 73 de Charles G3OTH
> P.S. Will try and get on the net tomorrow at 9.30 if condx allow.
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Crystal filter, I've set it at 12MHz but haven't yet done any development
>> on
>> it.
>>
>> Steve
>>
>> ----- Original Message -----
>> From: "Steve Ratzlaff" <steveratz@...>
>> To: <mkars80@...>
>> Sent: Saturday, August 15, 2009 5:38 PM
>> Subject: Re: [mkars80] 40 Meters??
>>
>>
>> > Which filter is too wide--the RF LPF or the IF crystal filter? If the
>> > xtal
>> > filter, what IF frequency are you using for the 40M version?
>> > 73,
>> > Steve
>> >
>> > ----- Original Message -----

>> > From: "Steve Drury" <g6alu@...>
>> > To: <mkars80@...>
>> > Sent: Saturday, August 15, 2009 9:22 AM
>> > Subject: Re: [mkars80] 40 Meters??
>> >
>> >
>> >> Funny you ask,
>> >>
>> >> Tried a MKARS40 out today, first contacts were DL and PA...
>> >>
>> >> There is a problem in that the filter bandwidth far too wide, if this
>> >> can
>> >> be
>> >> sorted then I will offer it for sale. It won't be offered as an
>> >> upgrade
>> >> though as there is too much danger in damaging the PCB when you change
>> >> all
>> >> the components.
>> >>
>> >> Steve G6ALU
>> >>
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>

1079. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-15 21:40:03 UTC
From: g3oth
Topic: 1070 Message: 1079

Ok Steve, well since the VFO is qQRP already compared with the final PA output which in turn is QRP compared with most signals on 40 meters and likewise the 2nd Harmonic of VFO is probably 20dB or more further down and even if PA LPF not brilliant @ 6 MHz where QRO 49 meter band BC stations abound, I dont suppose such a version of a MKARS40 would be a threat to anyone. So perhaps you could give it a try and further save yourself the bother of designing and stocking up with 12 MHz Xtals. Although 3 : 2.8 (or worse 3 : 2.7 for whole of American Band) ratio is a tad more than ratio required for the MKARS80 VFO range, I would think by using a bigger L you would get away using the existing Polyvaricon etc.
73 de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Main problem I thought was with a 10MHz IF the VFO would have to run at
> 2.8 - 3MHz, the second harmonic at 6MHz may be hard to filter out of the TX
> spectra. I may be wrong though so might be worth another visit as it looks
> like the 10MHz IF is superior to 12MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Saturday, August 15, 2009 7:32 PM
> Subject: [mkars80] Re: 40 Meters??
>
>
> > Steve, please refresh my memory, I wonder what prompted you to change the
> > IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and just
> > use a lower VFO range ?
> > I can't remember now if you have covered this before in earlier posts,
> > VFO harmonics and mixing products ring a bell, or was that connected with
> > using a 9 MHz IF.
> > Apologies for bringing this up agn if the answer was covered already and
> > lies elsewhere.
> > 73 de Charles G3OTH
> > P.S. Will try and get on the net tomorrow at 9.30 if condx allow.
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Crystal filter, I've set it at 12MHz but haven't yet done any development
> >> on
> >> it.
> >>
> >> Steve
> >>

> >> ----- Original Message -----
> >> From: "Steve Ratzlaff" <steveratz@>
> >> To: <mkars80@...>
> >> Sent: Saturday, August 15, 2009 5:38 PM
> >> Subject: Re: [mkars80] 40 Meters??
> >>
> >>
> >> > Which filter is too wide--the RF LPF or the IF crystal filter? If the
> >> > xtal
> >> > filter, what IF frequency are you using for the 40M version?
> >> > 73,
> >> > Steve
> >> >
> >> > ----- Original Message -----
> >> > From: "Steve Drury" <g6alu@>
> >> > To: <mkars80@...>
> >> > Sent: Saturday, August 15, 2009 9:22 AM
> >> > Subject: Re: [mkars80] 40 Meters??
> >> >
> >> >
> >> >> Funny you ask,
> >> >>
> >> >> Tried a MKARS40 out today, first contacts were DL and PA...
> >> >>
> >> >> There is a problem in that the filter bandwidth far too wide, if this
> >> >> can
> >> >> be
> >> >> sorted then I will offer it for sale. It won't be offered as an
> >> >> upgrade
> >> >> though as there is too much danger in damaging the PCB when you change
> >> >> all
> >> >> the components.
> >> >>
> >> >> Steve G6ALU
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1080. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-16 06:07:00 UTC
From: Steve Drury
Topic: 1070 Message: 1080

I will investigate, I'm more worried about being seen as "clean" - if I remember correct the USA requirement is all spurii at least 43dB down on carrier. I could use a simple trap but most constructors wouldn't have the kit to align it.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Saturday, August 15, 2009 10:40 PM
Subject: [mkars80] Re: 40 Meters??

> Ok Steve, well since the VFO is qQRP already compared with the final PA
> output which in turn is QRP compared with most signals on 40 meters and
> likewise the 2nd Harmonic of VFO is probably 20dB or more further down and
> even if PA LPF not brilliant @ 6 MHz where QRO 49 meter band BC stations
> abound, I dont suppose such a version of a MKARS40 would be a threat to
> anyone. So perhaps you could give it a try and further save yourself the
> bother of designing and stocking up with 12 MHz Xtals. Although 3 : 2.8
> (or worse 3 : 2.7 for whole of American Band) ratio is a tad more than
> ratio required for the MKARS80 VFO range, I would think by using a bigger
> L you would get away using the existing Polyvaricon etc.
> 73 de Charles G3OTH
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Main problem I thought was with a 10MHz IF the VFO would have to run at
>> 2.8 - 3MHz, the second harmonic at 6MHz may be hard to filter out of the
>> TX
>> spectra. I may be wrong though so might be worth another visit as it
>> looks
>> like the 10MHz IF is superior to 12MHz.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@...>
>> To: <mkars80@...>
>> Sent: Saturday, August 15, 2009 7:32 PM
>> Subject: [mkars80] Re: 40 Meters??
>>
>>
>> > Steve, please refresh my memory, I wonder what prompted you to change
>> > the

>> > IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and
>> > just
>> > use a lower VFO range ?
>> > I can't remember now if you have covered this before in earlier posts,
>> > VFO harmonics and mixing products ring a bell, or was that connected
>> > with
>> > using a 9 MHz IF.
>> > Apologies for bringing this up agn if the answer was covered already
>> > and
>> > lies elsewhere.
>> > 73 de Charles G3OTH
>> > P.S. Will try and get on the net tomorrow at 9.30 if condx allow.
>> >
>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Crystal filter, I've set it at 12MHz but haven't yet done any
>> >> development
>> >> on
>> >> it.
>> >>
>> >> Steve
>> >>
>> >> ----- Original Message -----
>> >> From: "Steve Ratzlaff" <steveratz@>
>> >> To: <mkars80@...>
>> >> Sent: Saturday, August 15, 2009 5:38 PM
>> >> Subject: Re: [mkars80] 40 Meters??
>> >>
>> >>
>> >> > Which filter is too wide--the RF LPF or the IF crystal filter? If
>> >> > the
>> >> > xtal
>> >> > filter, what IF frequency are you using for the 40M version?
>> >> > 73,
>> >> > Steve
>> >> >
>> >> > ----- Original Message -----
>> >> > From: "Steve Drury" <g6alu@>
>> >> > To: <mkars80@...>
>> >> > Sent: Saturday, August 15, 2009 9:22 AM
>> >> > Subject: Re: [mkars80] 40 Meters??
>> >> >
>> >> >
>> >> >> Funny you ask,
>> >> >>
>> >> >> Tried a MKARS40 out today, first contacts were DL and PA...
>> >> >>
>> >> >> There is a problem in that the filter bandwidth far too wide, if
>> >> >> this
>> >> >> can

>> >> >> be
>> >> >> sorted then I will offer it for sale. It won't be offered as an
>> >> >> upgrade
>> >> >> though as there is too much danger in damaging the PCB when you
>> >> >> change
>> >> >> all
>> >> >> the components.
>> >> >>
>> >> >> Steve G6ALU
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06:10:00

1081. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-16 09:31:52 UTC
From: Ron
Topic: 1070 Message: 1081

Hello Steve and all,

In March of this year I conducted several experiments to convert one of my MKARS80 into an MKARS40. Some of you, including you Steve, may remember that I finally gave up. The main reason was that I could not get spuriuos radiation within acceptable limits. Another reason was overload by broadcasting stations still present on the 40m band, which was a nuisance at night time. In addition the MKARS40 was plagued by mirror frequencies. First I decided to make it easy on myself and tried 10 MHz (as in the MKARS80) as IF and the VFO running at 2,9 MHz. The second VFO-harmonic was way too strong in the output, a fact for which Steve had warned me. Tightening the LP-filter and the bandpass filter did not help much. I then tried 12 MHz as IF. This was slightly better but I could not get the displayed frequency right since the PIC assumes 10 MHz to be the IF.
I was about to try and use a 5 MHz IF when I decided to convert the MKARS40 back to an MKARS80 before I would definitivelye destroy the PCB.
I did make some QSO's with each version of my MKARS40 and I have put a short video clip in the files section to illustrate that. I still find it a pity that I did not find the time and courage to pursue the MKARS40 as the 40m band has recently become more interesting after it has been widened up. It also lends itself somewhat better to QRP-operation than 80. For instance I listen sometimes on Sunday mornings at 8.30 UTC on 3.690 to hear some sign of life from UK MKARS80 owners, but without result so far. I believe on 40 this would be better.
Anyway, perhaps some day someone will take up the glove and develop an MKARS40. If there is anything I can do to help I will be glad to.

73 Ron de pa0rcl

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I will investigate, I'm more worried about being seen as "clean" - if I
> remember correct the USA requirement is all spurii at least 43dB down on
> carrier. I could use a simple trap but most constructors wouldn't have the
> kit to align it.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Saturday, August 15, 2009 10:40 PM
> Subject: [mkars80] Re: 40 Meters??
>
>
> > Ok Steve, well since the VFO is qQRP already compared with the final PA
> > output which in turn is QRP compared with most signals on 40 meters and
> > likewise the 2nd Harmonic of VFO is probably 20dB or more further down and
> > even if PA LPF not brilliant @ 6 MHz where QRO 49 meter band BC stations

> > abound, I dont suppose such a version of a MKARS40 would be a threat to
> > anyone. So perhaps you could give it a try and further save yourself the
> > bother of designing and stocking up with 12 MHz Xtals. Although 3 : 2.8
> > (or worse 3 : 2.7 for whole of American Band) ratio is a tad more than
> > ratio required for the MKARS80 VFO range, I would think by using a bigger
> > L you would get away using the existing Polyvaricon etc.
> > 73 de Charles G3OTH
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Main problem I thought was with a 10MHz IF the VFO would have to run at
> >> 2.8 - 3MHz, the second harmonic at 6MHz may be hard to filter out of the
> >> TX
> >> spectra. I may be wrong though so might be worth another visit as it
> >> looks
> >> like the 10MHz IF is superior to 12MHz.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "g3oth" <g3oth@>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Saturday, August 15, 2009 7:32 PM
> >> Subject: [mkars80] Re: 40 Meters??
> >>
> >>
> >> > Steve, please refresh my memory, I wonder what prompted you to change
> >> > the
> >> > IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and
> >> > just
> >> > use a lower VFO range ?
> >> > I can't remember now if you have covered this before in earlier posts,
> >> > VFO harmonics and mixing products ring a bell, or was that connected
> >> > with
> >> > using a 9 MHz IF.
> >> > Apologies for bringing this up agn if the answer was covered already
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> >> > lies elsewhere.
> >> > 73 de Charles G3OTH
> >> > P.S. Will try and get on the net tomorrow at 9.30 if condx allow.
> >> >
> >> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Crystal filter, I've set it at 12MHz but haven't yet done any
> >> >> development
> >> >> on
> >> >> it.
> >> >>
> >> >> Steve

> >> >>
> >> >> ----- Original Message -----
> >> >> From: "Steve Ratzlaff" <steveratz@>
> >> >> To: <mkars80@...>
> >> >> Sent: Saturday, August 15, 2009 5:38 PM
> >> >> Subject: Re: [mkars80] 40 Meters??
> >> >>
> >> >>
> >> >> > Which filter is too wide--the RF LPF or the IF crystal filter? If
> >> >> > the
> >> >> > xtal
> >> >> > filter, what IF frequency are you using for the 40M version?
> >> >> > 73,
> >> >> > Steve
> >> >> >
> >> >> > ----- Original Message -----
> >> >> > From: "Steve Drury" <g6alu@>
> >> >> > To: <mkars80@yahoogroups.co.uk>
> >> >> > Sent: Saturday, August 15, 2009 9:22 AM
> >> >> > Subject: Re: [mkars80] 40 Meters??
> >> >> >
> >> >> >
> >> >> >> Funny you ask,
> >> >> >>
> >> >> >> Tried a MKARS40 out today, first contacts were DL and PA...
> >> >> >>
> >> >> >> There is a problem in that the filter bandwidth far too wide, if
> >> >> >> this
> >> >> >> can
> >> >> >> be
> >> >> >> sorted then I will offer it for sale. It won't be offered as an
> >> >> >> upgrade
> >> >> >> though as there is too much danger in damaging the PCB when you
> >> >> >> change
> >> >> >> all
> >> >> >> the components.
> >> >> >>
> >> >> >> Steve G6ALU
> >> >> >>
> >> >> >
> >> >> >
> >> >> >
> >> >> > ------------------------------------
> >> >> >
> >> >> > Yahoo! Groups Links
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> >> >>

> >> >> ---
> >> >>
> >> >>
> >> >>
> >> >> No virus found in this incoming message.
> >> >> Checked by AVG - www.avg.com
> >> >> Version: 8.5.392 / Virus Database: 270.13.58/2304 - Release Date:
> >> >> 08/15/09
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> 06:10:00
>

1082. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-16 11:41:25 UTC
From: Davenpam
Topic: 1070 Message: 1082

How about a Chebyshev with Added Zero filter ?
http://www.arrl.org/tis/info/pdf/9902044.pdf

Also maybe an 11 Mhz IF ? Similiar to what is used on the BitX20A and BitX17A at http://www.qrpkits.com/bitx20a.html

The 10 MHz Time signal can be fairly strong at times here in the USA

David N1OMO

Steve Drury wrote:
>
>
> I will investigate, I'm more worried about being seen as "clean" - if I
> remember correct the USA requirement is all spurii at least 43dB down on
> carrier. I could use a simple trap but most constructors wouldn't have
> the
> kit to align it.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@... <mailto:g3oth%40btopenworld.com>>
> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> Sent: Saturday, August 15, 2009 10:40 PM
> Subject: [mkars80] Re: 40 Meters??
>
> > Ok Steve, well since the VFO is qQRP already compared with the final PA
> > output which in turn is QRP compared with most signals on 40 meters and
> > likewise the 2nd Harmonic of VFO is probably 20dB or more further
> down and
> > even if PA LPF not brilliant @ 6 MHz where QRO 49 meter band BC
> stations
> > abound, I dont suppose such a version of a MKARS40 would be a threat to
> > anyone. So perhaps you could give it a try and further save yourself
> the
> > bother of designing and stocking up with 12 MHz Xtals. Although 3 : 2.8
> > (or worse 3 : 2.7 for whole of American Band) ratio is a tad more than
> > ratio required for the MKARS80 VFO range, I would think by using a
> bigger
> > L you would get away using the existing Polyvaricon etc.
> > 73 de Charles G3OTH
> >
> >
> > --- In mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>, "Steve Drury" <g6alu@...> wrote:

> >>
> >> Main problem I thought was with a 10MHz IF the VFO would have to run at
> >> 2.8 - 3MHz, the second harmonic at 6MHz may be hard to filter out
> of the
> >> TX
> >> spectra. I may be wrong though so might be worth another visit as it
> >> looks
> >> like the 10MHz IF is superior to 12MHz.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "g3oth" <g3oth@...>
> >> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> >> Sent: Saturday, August 15, 2009 7:32 PM
> >> Subject: [mkars80] Re: 40 Meters??
> >>
> >>
> >> > Steve, please refresh my memory, I wonder what prompted you to
> change
> >> > the
> >> > IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and
> >> > just
> >> > use a lower VFO range ?
> >> > I can't remember now if you have covered this before in earlier
> posts,
> >> > VFO harmonics and mixing products ring a bell, or was that connected
> >> > with
> >> > using a 9 MHz IF.
> >> > Apologies for bringing this up agn if the answer was covered already
> >> > and
> >> > lies elsewhere.
> >> > 73 de Charles G3OTH
> >> > P.S. Will try and get on the net tomorrow at 9.30 if condx allow.
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> >> > --- In mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>, "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Crystal filter, I've set it at 12MHz but haven't yet done any
> >> >> development
> >> >> on
> >> >> it.
> >> >>
> >> >> Steve
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "Steve Ratzlaff" <steveratz@>
> >> >> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> >> >> Sent: Saturday, August 15, 2009 5:38 PM
> >> >> Subject: Re: [mkars80] 40 Meters??

> >> >>
> >> >>
> >> >> > Which filter is too wide--the RF LPF or the IF crystal filter? If
> >> >> > the
> >> >> > xtal
> >> >> > filter, what IF frequency are you using for the 40M version?
> >> >> > 73,
> >> >> > Steve
> >> >> >
> >> >> > ----- Original Message -----
> >> >> > From: "Steve Drury" <g6alu@>
> >> >> > To: <mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>>
> >> >> > Sent: Saturday, August 15, 2009 9:22 AM
> >> >> > Subject: Re: [mkars80] 40 Meters??
> >> >> >
> >> >> >
> >> >> >> Funny you ask,
> >> >> >>
> >> >> >> Tried a MKARS40 out today, first contacts were DL and PA...
> >> >> >>
> >> >> >> There is a problem in that the filter bandwidth far too wide, if
> >> >> >> this
> >> >> >> can
> >> >> >> be
> >> >> >> sorted then I will offer it for sale. It won't be offered as an
> >> >> >> upgrade
> >> >> >> though as there is too much danger in damaging the PCB when you
> >> >> >> change
> >> >> >> all
> >> >> >> the components.
> >> >> >>
> >> >> >> Steve G6ALU
> >> >> >>
> >> >> >
> >> >> >
> >> >> >
> >> >> > ------------------------------------
> >> >> >
> >> >> > Yahoo! Groups Links
> >> >> >
> >> >> >
> >> >> >
> >> >>
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> >> >> --
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> >> >>
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> 08/15/09
> 06:10:00
>
>

1083. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-18 21:18:15 UTC
From: Steve Drury
Topic: 1070 Message: 1083

Ron,
I haven't forgotten you, I'm still working on the 12MHz IF version. Filter is being a bit tricky but not given up yet!

I will update the group when I have something to report.

Steve G6ALU

----- Original Message -----
From: "Ron" <ronvingerling@...>
To: <mkars80@...>
Sent: Sunday, August 16, 2009 10:31 AM
Subject: [mkars80] Re: 40 Meters??

> Hello Steve and all,
>
> In March of this year I conducted several experiments to convert one of my
> MKARS80 into an MKARS40. Some of you, including you Steve, may remember
> that I finally gave up. The main reason was that I could not get spuriuos
> radiation within acceptable limits. Another reason was overload by
> broadcasting stations still present on the 40m band, which was a nuisance
> at night time. In addition the MKARS40 was plagued by mirror frequencies.
> First I decided to make it easy on myself and tried 10 MHz (as in the
> MKARS80) as IF and the VFO running at 2,9 MHz. The second VFO-harmonic was
> way too strong in the output, a fact for which Steve had warned me.
> Tightening the LP-filter and the bandpass filter did not help much. I then
> tried 12 MHz as IF. This was slightly better but I could not get the
> displayed frequency right since the PIC assumes 10 MHz to be the IF.
> I was about to try and use a 5 MHz IF when I decided to convert the
> MKARS40 back to an MKARS80 before I would definitivelye destroy the PCB.
> I did make some QSO's with each version of my MKARS40 and I have put a
> short video clip in the files section to illustrate that. I still find it
> a pity that I did not find the time and courage to pursue the MKARS40 as
> the 40m band has recently become more interesting after it has been
> widened up. It also lends itself somewhat better to QRP-operation than 80.
> For instance I listen sometimes on Sunday mornings at 8.30 UTC on 3.690 to
> hear some sign of life from UK MKARS80 owners, but without result so far.
> I believe on 40 this would be better.
> Anyway, perhaps some day someone will take up the glove and develop an
> MKARS40. If there is anything I can do to help I will be glad to.
>
>
> 73 Ron de pa0rcl
>
>
>

>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> I will investigate, I'm more worried about being seen as "clean" - if I
>> remember correct the USA requirement is all spurii at least 43dB down on
>> carrier. I could use a simple trap but most constructors wouldn't have
>> the
>> kit to align it.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@...>
>> To: <mkars80@...>
>> Sent: Saturday, August 15, 2009 10:40 PM
>> Subject: [mkars80] Re: 40 Meters??
>>
>>
>> > Ok Steve, well since the VFO is qQRP already compared with the final PA
>> > output which in turn is QRP compared with most signals on 40 meters and
>> > likewise the 2nd Harmonic of VFO is probably 20dB or more further down
>> > and
>> > even if PA LPF not brilliant @ 6 MHz where QRO 49 meter band BC
>> > stations
>> > abound, I dont suppose such a version of a MKARS40 would be a threat to
>> > anyone. So perhaps you could give it a try and further save yourself
>> > the
>> > bother of designing and stocking up with 12 MHz Xtals. Although 3 : 2.8
>> > (or worse 3 : 2.7 for whole of American Band) ratio is a tad more than
>> > ratio required for the MKARS80 VFO range, I would think by using a
>> > bigger
>> > L you would get away using the existing Polyvaricon etc.
>> > 73 de Charles G3OTH
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>> >
>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Main problem I thought was with a 10MHz IF the VFO would have to run
>> >> at
>> >> 2.8 - 3MHz, the second harmonic at 6MHz may be hard to filter out of
>> >> the
>> >> TX
>> >> spectra. I may be wrong though so might be worth another visit as it
>> >> looks
>> >> like the 10MHz IF is superior to 12MHz.
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: "g3oth" <g3oth@>

>> >> To: <mkars80@...>
>> >> Sent: Saturday, August 15, 2009 7:32 PM
>> >> Subject: [mkars80] Re: 40 Meters??
>> >>
>> >>
>> >> > Steve, please refresh my memory, I wonder what prompted you to
>> >> > change
>> >> > the
>> >> > IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and
>> >> > just
>> >> > use a lower VFO range ?
>> >> > I can't remember now if you have covered this before in earlier
>> >> > posts,
>> >> > VFO harmonics and mixing products ring a bell, or was that connected
>> >> > with
>> >> > using a 9 MHz IF.
>> >> > Apologies for bringing this up agn if the answer was covered already
>> >> > and
>> >> > lies elsewhere.
>> >> > 73 de Charles G3OTH
>> >> > P.S. Will try and get on the net tomorrow at 9.30 if condx allow.
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>> >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >> >>
>> >> >> Crystal filter, I've set it at 12MHz but haven't yet done any
>> >> >> development
>> >> >> on
>> >> >> it.
>> >> >>
>> >> >> Steve
>> >> >>
>> >> >> ----- Original Message -----
>> >> >> From: "Steve Ratzlaff" <steveratz@>
>> >> >> To: <mkars80@...>
>> >> >> Sent: Saturday, August 15, 2009 5:38 PM
>> >> >> Subject: Re: [mkars80] 40 Meters??
>> >> >>
>> >> >>
>> >> >> > Which filter is too wide--the RF LPF or the IF crystal filter? If
>> >> >> > the
>> >> >> > xtal
>> >> >> > filter, what IF frequency are you using for the 40M version?
>> >> >> > 73,
>> >> >> > Steve
>> >> >> >
>> >> >> > ----- Original Message -----
>> >> >> > From: "Steve Drury" <g6alu@>
>> >> >> > To: <mkars80@...>
>> >> >> > Sent: Saturday, August 15, 2009 9:22 AM
>> >> >> > Subject: Re: [mkars80] 40 Meters??

>> >> >> >
>> >> >> >
>> >> >> >> Funny you ask,
>> >> >> >>
>> >> >> >> Tried a MKARS40 out today, first contacts were DL and PA...
>> >> >> >>
>> >> >> >> There is a problem in that the filter bandwidth far too wide, if
>> >> >> >> this
>> >> >> >> can
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>> >> >> >>
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>> >> >> >>
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>> >> >> >> ------------------------------------
>> >> >> >>
>> >> >> >> Yahoo! Groups Links
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>> >> >> >>
>> >> >> >>
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.58/2304 - Release Date: 08/15/09
06:10:00

1084. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-18 21:22:26 UTC
From: Steve Drury
Topic: 1070 Message: 1084

David,

With a 10MHz IF the problem would appear to be the second harmonic of the
VFO around 6MHz so unfortunately an improved LPF won't help.

Using a 11MHz IF doesn't really help either as the second harmonic of the
VFO will be about 8MHz, still too near the wanted output of 7-7.3MHz.

Steve G6ALU

----- Original Message -----
From: "Davenpam" <davenpam@...>
To: <mkars80@...>
Sent: Sunday, August 16, 2009 12:41 PM
Subject: Re: [mkars80] Re: 40 Meters??

> How about a Chebyshev with Added Zero filter ?
> http://www.arrl.org/tis/info/pdf/9902044.pdf
>
> Also maybe an 11 Mhz IF ? Similiar to what is used on the BitX20A and
> BitX17A at http://www.qrpkits.com/bitx20a.html
>
> The 10 MHz Time signal can be fairly strong at times here in the USA
>
> David N1OMO
>
>
>
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> Steve Drury wrote:
>>
>>
>> I will investigate, I'm more worried about being seen as "clean" - if I
>> remember correct the USA requirement is all spurii at least 43dB down on
>> carrier. I could use a simple trap but most constructors wouldn't have
>> the
>> kit to align it.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@... <mailto:g3oth%40btopenworld.com>>
>> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
>> Sent: Saturday, August 15, 2009 10:40 PM
>> Subject: [mkars80] Re: 40 Meters??

>>
>> > Ok Steve, well since the VFO is qQRP already compared with the final PA
>> > output which in turn is QRP compared with most signals on 40 meters and
>> > likewise the 2nd Harmonic of VFO is probably 20dB or more further
>> down and
>> > even if PA LPF not brilliant @ 6 MHz where QRO 49 meter band BC
>> stations
>> > abound, I dont suppose such a version of a MKARS40 would be a threat to
>> > anyone. So perhaps you could give it a try and further save yourself
>> the
>> > bother of designing and stocking up with 12 MHz Xtals. Although 3 : 2.8
>> > (or worse 3 : 2.7 for whole of American Band) ratio is a tad more than
>> > ratio required for the MKARS80 VFO range, I would think by using a
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>> > L you would get away using the existing Polyvaricon etc.
>> > 73 de Charles G3OTH
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>> > --- In mkars80@...
>> <mailto:mkars80%40yahoogroups.co.uk>, "Steve Drury" <g6alu@...> wrote:
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>> >> at
>> >> 2.8 - 3MHz, the second harmonic at 6MHz may be hard to filter out
>> of the
>> >> TX
>> >> spectra. I may be wrong though so might be worth another visit as it
>> >> looks
>> >> like the 10MHz IF is superior to 12MHz.
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: "g3oth" <g3oth@...>
>> >> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
>> >> Sent: Saturday, August 15, 2009 7:32 PM
>> >> Subject: [mkars80] Re: 40 Meters??
>> >>
>> >>
>> >> > Steve, please refresh my memory, I wonder what prompted you to
>> change
>> >> > the
>> >> > IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and
>> >> > just
>> >> > use a lower VFO range ?
>> >> > I can't remember now if you have covered this before in earlier
>> posts,
>> >> > VFO harmonics and mixing products ring a bell, or was that connected
>> >> > with
>> >> > using a 9 MHz IF.

>> >> > Apologies for bringing this up agn if the answer was covered already
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>> >> > P.S. Will try and get on the net tomorrow at 9.30 if condx allow.
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>> >> > --- In mkars80@...
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>> >> >> Crystal filter, I've set it at 12MHz but haven't yet done any
>> >> >> development
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>> >> >> it.
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>> >> >> Steve
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>> >> >> ----- Original Message -----
>> >> >> From: "Steve Ratzlaff" <steveratz@>
>> >> >> To: <mkars80@...
>> >> >> <mailto:mkars80%40yahoogroups.co.uk>>
>> >> >> Sent: Saturday, August 15, 2009 5:38 PM
>> >> >> Subject: Re: [mkars80] 40 Meters??
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>> >> >> > Steve
>> >> >> >
>> >> >> > ----- Original Message -----
>> >> >> > From: "Steve Drury" <g6alu@>
>> >> >> > To: <mkars80@...
>> <mailto:mkars80%40yahoogroups.co.uk>>
>> >> >> > Sent: Saturday, August 15, 2009 9:22 AM
>> >> >> > Subject: Re: [mkars80] 40 Meters??
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>> >> >> >
>> >> >> >> Funny you ask,
>> >> >> >>
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>> >> >> >
>> >> >> >
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06:10:00

1085. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-19 20:41:43 UTC
From: Ron
Topic: 1070 Message: 1085

I am very glad to hear this good news, Steve. Be assured I will follow the developments with keen interest. If there is anything I can help you with, please let me know.

73 Ron de pa0rcl

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Ron,
> I haven't forgotten you, I'm still working on the 12MHz IF version. Filter
> is being a bit tricky but not given up yet!
>
> I will update the group when I have something to report.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Ron" <ronvingerling@...>
> To: <mkars80@...>
> Sent: Sunday, August 16, 2009 10:31 AM
> Subject: [mkars80] Re: 40 Meters??
>
>
> > Hello Steve and all,
> >
> > In March of this year I conducted several experiments to convert one of my
> > MKARS80 into an MKARS40. Some of you, including you Steve, may remember
> > that I finally gave up. The main reason was that I could not get spuriuos
> > radiation within acceptable limits. Another reason was overload by
> > broadcasting stations still present on the 40m band, which was a nuisance
> > at night time. In addition the MKARS40 was plagued by mirror frequencies.
> > First I decided to make it easy on myself and tried 10 MHz (as in the
> > MKARS8O) as IF and the VFO running at 2,9 MHz. The second VFO-harmonic was
> > way too strong in the output, a fact for which Steve had warned me.
> > Tightening the LP-filter and the bandpass filter did not help much. I then
> > tried 12 MHz as IF. This was slightly better but I could not get the
> > displayed frequency right since the PIC assumes 10 MHz to be the IF.
> > I was about to try and use a 5 MHz IF when I decided to convert the
> > MKARS40 back to an MKARS80 before I would definitivelye destroy the PCB.
> > I did make some QSO's with each version of my MKARS40 and I have put a
> > short video clip in the files section to illustrate that. I still find it
> > a pity that I did not find the time and courage to pursue the MKARS40 as
> > the 40m band has recently become more interesting after it has been
> > widened up. It also lends itself somewhat better to QRP-operation than 80.
> > For instance I listen sometimes on Sunday mornings at 8.30 UTC on 3.690 to
> > hear some sign of life from UK MKARS80 owners, but without result so far.

> > I believe on 40 this would be better.
> > Anyway, perhaps some day someone will take up the glove and develop an
> > MKARS40. If there is anything I can do to help I will be glad to.
> >
> >
> > 73 Ron de pa0rcl
> >
> >
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> I will investigate, I'm more worried about being seen as "clean" - if I
> >> remember correct the USA requirement is all spurii at least 43dB down on
> >> carrier. I could use a simple trap but most constructors wouldn't have
> >> the
> >> kit to align it.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "g3oth" <g3oth@>
> >> To: <mkars80@...>
> >> Sent: Saturday, August 15, 2009 10:40 PM
> >> Subject: [mkars80] Re: 40 Meters??
> >>
> >>
> >> > Ok Steve, well since the VFO is qQRP already compared with the final PA
> >> > output which in turn is QRP compared with most signals on 40 meters and
> >> > likewise the 2nd Harmonic of VFO is probably 20dB or more further down
> >> > and
> >> > even if PA LPF not brilliant @ 6 MHz where QRO 49 meter band BC
> >> > stations
> >> > abound, I dont suppose such a version of a MKARS40 would be a threat to
> >> > anyone. So perhaps you could give it a try and further save yourself
> >> > the
> >> > bother of designing and stocking up with 12 MHz Xtals. Although 3 : 2.8
> >> > (or worse 3 : 2.7 for whole of American Band) ratio is a tad more than
> >> > ratio required for the MKARS80 VFO range, I would think by using a
> >> > bigger
> >> > L you would get away using the existing Polyvaricon etc.
> >> > 73 de Charles G3OTH
> >> >
> >> >
> >> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Main problem I thought was with a 10MHz IF the VFO would have to run
> >> >> at
> >> >> 2.8 - 3MHz, the second harmonic at 6MHz may be hard to filter out of
> >> >> the

> >> >> TX
> >> >> spectra. I may be wrong though so might be worth another visit as it
> >> >> looks
> >> >> like the 10MHz IF is superior to 12MHz.
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "g3oth" <g3oth@>
> >> >> To: <mkars80@....uk>
> >> >> Sent: Saturday, August 15, 2009 7:32 PM
> >> >> Subject: [mkars80] Re: 40 Meters??
> >> >>
> >> >>
> >> >> > Steve, please refresh my memory, I wonder what prompted you to
> >> >> > change
> >> >> > the
> >> >> > IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz and
> >> >> > just
> >> >> > use a lower VFO range ?
> >> >> > I can't remember now if you have covered this before in earlier
> >> >> > posts,
> >> >> > VFO harmonics and mixing products ring a bell, or was that connected
> >> >> > with
> >> >> > using a 9 MHz IF.
> >> >> > Apologies for bringing this up agn if the answer was covered already
> >> >> > and
> >> >> > lies elsewhere.
> >> >> > 73 de Charles G3OTH
> >> >> > P.S. Will try and get on the net tomorrow at 9.30 if condx allow.
> >> >> >
> >> >> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >> >> >>
> >> >> >> Crystal filter, I've set it at 12MHz but haven't yet done any
> >> >> >> development
> >> >> >> on
> >> >> >> it.
> >> >> >>
> >> >> >> Steve
> >> >> >>
> >> >> >> ----- Original Message -----
> >> >> >> From: "Steve Ratzlaff" <steveratz@>
> >> >> >> To: <mkars80@...>
> >> >> >> Sent: Saturday, August 15, 2009 5:38 PM
> >> >> >> Subject: Re: [mkars80] 40 Meters??
> >> >> >>
> >> >> >>
> >> >> >> > Which filter is too wide--the RF LPF or the IF crystal filter? If
> >> >> >> > the
> >> >> >> > xtal

> >> >> >> > filter, what IF frequency are you using for the 40M version?
> >> >> >> > 73,
> >> >> >> > Steve
> >> >> >> >
> >> >> >> > ----- Original Message -----
> >> >> >> > From: "Steve Drury" <g6alu@>
> >> >> >> > To: <mkars80@yahoogroups.co.uk>
> >> >> >> > Sent: Saturday, August 15, 2009 9:22 AM
> >> >> >> > Subject: Re: [mkars80] 40 Meters??
> >> >> >> >
> >> >> >> >
> >> >> >> >> Funny you ask,
> >> >> >> >>
> >> >> >> >> Tried a MKARS40 out today, first contacts were DL and PA...
> >> >> >> >>
> >> >> >> >> There is a problem in that the filter bandwidth far too wide, if
> >> >> >> >> this
> >> >> >> >> can
> >> >> >> >> be
> >> >> >> >> sorted then I will offer it for sale. It won't be offered as an
> >> >> >> >> upgrade
> >> >> >> >> though as there is too much danger in damaging the PCB when you
> >> >> >> >> change
> >> >> >> >> all
> >> >> >> >> the components.
> >> >> >> >>
> >> >> >> >> Steve G6ALU
> >> >> >> >>
> >> >> >> >
> >> >> >> >
> >> >> >> >
> >> >> >> > ---------------------------------
> >> >> >> >
> >> >> >> > Yahoo! Groups Links
> >> >> >> >
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> >> >> >>
> >> >> >>
> >> >> >>
> >> >> >> No virus found in this incoming message.
> >> >> >> Checked by AVG - www.avg.com
> >> >> >> Version: 8.5.392 / Virus Database: 270.13.58/2304 - Release Date:
> >> >> >> 08/15/09
> >> >> >> 06:10:00
> >> >> >>

> >> >> >
> >> >> >
> >> >> >
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> >> >> > ------------------------------------
> >> >> >
> >> >> > Yahoo! Groups Links
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> 06:10:00
>

1086. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-19 20:56:47 UTC
From: Steve Drury
Topic: 1070 Message: 1086

Thanks Ron I will let you know - I'm busy at the moment bagging kits up for
3 mobile rallies we have coming up; Rugby, Milton Keynes and Loughborough.

Steve

----- Original Message -----
From: "Ron" <ronvingerling@...>
To: <mkars80@...>
Sent: Wednesday, August 19, 2009 9:41 PM
Subject: [mkars80] Re: 40 Meters??

>I am very glad to hear this good news, Steve. Be assured I will follow the
>developments with keen interest. If there is anything I can help you with,
>please let me know.
>
> 73 Ron de pa0rcl
>
>
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Ron,
>> I haven't forgotten you, I'm still working on the 12MHz IF version.
>> Filter
>> is being a bit tricky but not given up yet!
>>
>> I will update the group when I have something to report.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Ron" <ronvingerling@...>
>> To: <mkars80@...>
>> Sent: Sunday, August 16, 2009 10:31 AM
>> Subject: [mkars80] Re: 40 Meters??
>>
>>
>> > Hello Steve and all,
>> >
>> > In March of this year I conducted several experiments to convert one of
>> > my
>> > MKARS80 into an MKARS40. Some of you, including you Steve, may remember
>> > that I finally gave up. The main reason was that I could not get
>> > spuriuos

>> > radiation within acceptable limits. Another reason was overload by
>> > broadcasting stations still present on the 40m band, which was a
>> > nuisance
>> > at night time. In addition the MKARS40 was plagued by mirror
>> > frequencies.
>> > First I decided to make it easy on myself and tried 10 MHz (as in the
>> > MKARS80) as IF and the VFO running at 2,9 MHz. The second VFO-harmonic
>> > was
>> > way too strong in the output, a fact for which Steve had warned me.
>> > Tightening the LP-filter and the bandpass filter did not help much. I
>> > then
>> > tried 12 MHz as IF. This was slightly better but I could not get the
>> > displayed frequency right since the PIC assumes 10 MHz to be the IF.
>> > I was about to try and use a 5 MHz IF when I decided to convert the
>> > MKARS40 back to an MKARS80 before I would definitivelye destroy the
>> > PCB.
>> > I did make some QSO's with each version of my MKARS40 and I have put a
>> > short video clip in the files section to illustrate that. I still find
>> > it
>> > a pity that I did not find the time and courage to pursue the MKARS40
>> > as
>> > the 40m band has recently become more interesting after it has been
>> > widened up. It also lends itself somewhat better to QRP-operation than
>> > 80.
>> > For instance I listen sometimes on Sunday mornings at 8.30 UTC on 3.690
>> > to
>> > hear some sign of life from UK MKARS80 owners, but without result so
>> > far.
>> > I believe on 40 this would be better.
>> > Anyway, perhaps some day someone will take up the glove and develop an
>> > MKARS40. If there is anything I can do to help I will be glad to.
>> >
>> >
>> > 73 Ron de pa0rcl
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>> >
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>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> I will investigate, I'm more worried about being seen as "clean" - if
>> >> I
>> >> remember correct the USA requirement is all spurii at least 43dB down
>> >> on
>> >> carrier. I could use a simple trap but most constructors wouldn't have
>> >> the
>> >> kit to align it.
>> >>
>> >> Steve G6ALU
>> >>

>> >> ----- Original Message -----
>> >> From: "g3oth" <g3oth@>
>> >> To: <mkars80@...>
>> >> Sent: Saturday, August 15, 2009 10:40 PM
>> >> Subject: [mkars80] Re: 40 Meters??
>> >>
>> >>
>> >> > Ok Steve, well since the VFO is qQRP already compared with the final
>> >> > PA
>> >> > output which in turn is QRP compared with most signals on 40 meters
>> >> > and
>> >> > likewise the 2nd Harmonic of VFO is probably 20dB or more further
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>> >> > even if PA LPF not brilliant @ 6 MHz where QRO 49 meter band BC
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>> >> >> it
>> >> >> looks
>> >> >> like the 10MHz IF is superior to 12MHz.
>> >> >>
>> >> >> Steve G6ALU
>> >> >>
>> >> >> ----- Original Message -----
>> >> >> From: "g3oth" <g3oth@>
>> >> >> To: <mkars80@...>
>> >> >> Sent: Saturday, August 15, 2009 7:32 PM

>> >> >> Subject: [mkars80] Re: 40 Meters??
>> >> >>
>> >> >>
>> >> >> > Steve, please refresh my memory, I wonder what prompted you to
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>> >> >> > IF and go to 12 MHz to cover 40 meters rather than retain 10 MHz
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>> >> >> > I can't remember now if you have covered this before in earlier
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>> >> >> >> Crystal filter, I've set it at 12MHz but haven't yet done any
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>> >> >> >> on
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>> >> >> >>
>> >> >> >> Steve
>> >> >> >>
>> >> >> >> ----- Original Message -----
>> >> >> >> From: "Steve Ratzlaff" <steveratz@>
>> >> >> >> To: <mkars80@...>
>> >> >> >> Sent: Saturday, August 15, 2009 5:38 PM
>> >> >> >> Subject: Re: [mkars80] 40 Meters??
>> >> >> >>
>> >> >> >>
>> >> >> >> > Which filter is too wide--the RF LPF or the IF crystal filter?
>> >> >> >> > If
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>> >> >> >> > xtal
>> >> >> >> > filter, what IF frequency are you using for the 40M version?
>> >> >> >> > 73,
>> >> >> >> > Steve
>> >> >> >> >
>> >> >> >> > ----- Original Message -----
>> >> >> >> > From: "Steve Drury" <g6alu@>
>> >> >> >> > To: <mkars80@...>

>> >> >> >> > Sent: Saturday, August 15, 2009 9:22 AM
>> >> >> >> > Subject: Re: [mkars80] 40 Meters??
>> >> >> >> >
>> >> >> >> >
>> >> >> >> >> Funny you ask,
>> >> >> >> >>
>> >> >> >> >> Tried a MKARS40 out today, first contacts were DL and PA...
>> >> >> >> >>
>> >> >> >> >> There is a problem in that the filter bandwidth far too wide,
>> >> >> >> >> if
>> >> >> >> >> this
>> >> >> >> >> can
>> >> >> >> >> be
>> >> >> >> >> sorted then I will offer it for sale. It won't be offered as
>> >> >> >> >> an
>> >> >> >> >> upgrade
>> >> >> >> >> though as there is too much danger in damaging the PCB when
>> >> >> >> >> you
>> >> >> >> >> change
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>> >> >> >> >> Steve G6ALU
>> >> >> >> >>
>> >> >> >> >
>> >> >> >> >
>> >> >> >> >
>> >> >> >> > ------------------------------------
>> >> >> >> >
>> >> >> >> > Yahoo! Groups Links
>> >> >> >> >
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>> >> >> >>
>> >> >> >>
>> >> >> >>
>> >> >> >> No virus found in this incoming message.
>> >> >> >> Checked by AVG - www.avg.com
>> >> >> >> Version: 8.5.392 / Virus Database: 270.13.58/2304 - Release
>> >> >> >> Date:
>> >> >> >> 08/15/09
>> >> >> >> 06:10:00
>> >> >> >>
>> >> >> >
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>> >> >> > ------------------------------------
>> >> >> >
>> >> >> > Yahoo! Groups Links
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>> 08/15/09

>> 06:10:00
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> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.392 / Virus Database: 270.13.61/2313 - Release Date: 08/19/09
06:03:00

1087. A new mkars80 builder / user

Yahoo group: mkars80
Date: 2009-08-21 05:28:57 UTC
From: Nick Brok
Topic: 1087 Message: 1087

Hello,

Let me introduce: I'm PE1GOO and have just received my mkars80 kit.
Opening the package was a real surprise!
The delivery-time was fast (ordered last weekend and received yesterday).
I'm going to start building the radio and hope it will do as well as my bitx20 and bitx17.

Greetings,

Nick Brok, de Pe1GOO
--
Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paji kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"
Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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1088. Problems with winding T2

Yahoo group: mkars80
Date: 2009-08-23 04:47:41 UTC
From: Nick Brok
Topic: 1088 Message: 1088

Hello everyone,

I've build my kit and all went oke, except transformer T2.
I had many problems winding the thick (22 SWG) wire into the pig-nose without damaging its insulation.
Two questions:

1. Why is the wire so thick? (On BITX it is 27 SWG)
2. Is there a trick to wind it without damaging the insulation?

I spoiled all of the 22 SWG wire.... badly.....

With other kits I had no problems, because the wire wasn't that thick.

Is it possible to use the thinner 27 SWG wire for this transformer?

Greetings,

Nick Brok, de Pe1GOO
--
Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paji kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"
Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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1089. Re: [mkars80] Problems with winding T2

Yahoo group: mkars80
Date: 2009-08-23 07:51:56 UTC
From: Steve Drury
Topic: 1088 Message: 1089

Nick,

It is possible to use the 27 SWG wire, I've seen it used in error without any problem - I used thick wire to keep resistive loses low although 27 SWG should handle a couple of amps (peak) OK.

Steve G6ALU

----- Original Message -----
From: "Nick Brok" <pe1goo@...>
To: <mkars80@...>
Sent: Sunday, August 23, 2009 5:47 AM
Subject: [mkars80] Problems with winding T2

Hello everyone,

I've build my kit and all went oke, except transformer T2.
I had many problems winding the thick (22 SWG) wire into the pig-nose without damaging its insulation.
Two questions:

1. Why is the wire so thick? (On BITX it is 27 SWG)
2. Is there a trick to wind it without damaging the insulation?

I spoiled all of the 22 SWG wire.... badly.....

With other kits I had no problems, because the wire wasn't that thick.

Is it possible to use the thinner 27 SWG wire for this transformer?

Greetings,

Nick Brok, de Pe1GOO
--
Uitspraak van Ma?ra (De drakenmeester): "s?i paji sai dia degom wianon fio paji kwieimin si anrien est toia s?i si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"
Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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---

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com

Version: 8.5.409 / Virus Database: 270.13.64/2318 - Release Date: 08/21/09 18:06:00

1090. This morning's sked

Yahoo group: mkars80
Date: 2009-08-23 09:09:41 UTC
From: Steve Drury
Topic: 1090 Message: 1090

Six of us on the sked this morning:

Myself, Steve G6ALU - Milton Keynes

G4OZG - Ted, Kings Lynn - 5/8
G7HSA - Adrian, Ludlow - 5/8
M1EEL - Mick, Erith - 5/7
G4NJJ - Peter, Kings Lynn - 5/8
G3UD - Graham, Stoke on Trent - 4/7

Band conditions were reasonable apart from some co-channel interference from QRO stations!

Sked details:
Sunday @ 8:30 UTC, frequency 3.690MHz ± QRM.

Steve G6ALU

[Non-text portions of this message have been removed]

1091. Re: [mkars80] Problems with winding T2

Yahoo group: mkars80
Date: 2009-08-23 10:56:24 UTC
From: Tony Olewicz
Topic: 1088 Message: 1091

Nick,
Yes it is hard to wind this one without scraping the enamel off the wire.
One tip passed on to my by a veteran constructor, Mike G7ING, is to carefully chamfer the edges of the holes with a larger sized drill. This stops the wire dragging as much. It seemed to work, and I think has minimal effect on the completed coil parameters.
A further tip is to use a child's crayon to wax the chamfering, which lets the initial windings slide better.

A few more tips, worth repeating as they might save the midnight oil for any new constructors....

Another tip is to debur and inspect under magnification the holes paying particular attention to the output transistor, as a small sharp fragment, not visible to my diminishing close up vision can pierce the insulating pad, creating a short circuit.

Finally,
Heat strippable enamel in my experience isn't!
Now I prior to mounting and soldering on the board I heat strip the enamel, tin with solder and continuity check the tinned ends.

73
Tony
G6XMO
Sheffield

--- On Sun, 23/8/09, Nick Brok <pe1goo@yahoo.com> wrote:

From: Nick Brok <pe1goo@...>
Subject: [mkars80] Problems with winding T2
To: mkars80@...
Date: Sunday, 23 August, 2009, 5:47 AM

Hello everyone,

I've build my kit and all went oke, except transformer T2.

I had many problems winding the thick (22 SWG) wire into the pig-nose without damaging its insulation.

Two questions:

1. Why is the wire so thick? (On BITX it is 27 SWG)

2. Is there a trick to wind it without damaging the insulation?

I spoiled all of the 22 SWG wire.... badly.....

With other kits I had no problems, because the wire wasn't that thick.

Is it possible to use the thinner 27 SWG wire for this transformer?

Greetings,

Nick Brok, de Pe1GOO

--

Uitspraak van Maïra (De drakenmeester) : "sèi paji sai dia degom wianon fio paji kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden! "

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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[Non-text portions of this message have been removed]

1092. Re: [mkars80] Problems with winding T2

Yahoo group: mkars80
Date: 2009-08-23 17:03:10 UTC
From: Nick Brok
Topic: 1088 Message: 1092

--- On Sun, 8/23/09, Steve Drury <g6alu@...> wrote:

Nick,

It is possible to use the 27 SWG wire, I've seen it used in error without

any problem - I used thick wire to keep resistive loses low although 27 SWG

should handle a couple of amps (peak) OK.

Steve G6ALU

Hello Steve,
Many thanks for your reply. I've used the smaller wire and fixed in this way the problem to my Mkars80

Send instant messages to your online friends http://uk.messenger.yahoo.com

1093. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-23 19:51:21 UTC
From: Steve Drury
Topic: 1070 Message: 1093

An update on MKARS40 progress

I modified my development MKARS80 to 40 metres operation by changing the VFO frequency, low-pass filter, band-pass filter and the xtal filter from 10 to 12MHz, the radio worked as I mentioned before but had several problems:
1.. Crystal filter was much too wide - this has been cured by altering termination impedance and load capacitance, now works nicely and sounds good.
2.. Dynamic range insufficient - broadcast stations above 7.200MHz have extraordinarily signal strength! The way I've got round this is as follows; fitted a volume control in the fine tune control position and increased the gain of audio amplifier stage Q6 (R18 now 100K), this enables the RF gain to be reduced significantly with the additional benefit that background "hiss" from the front end is reduced. A multi-turn adapter will be used on the VFO. These modifications might be usefull on an MKARS80.
3.. Modulation indicator no longer works correctly - viewing the output waveform on the scope shows the transistor no longer "bottoms" at 0V - possible solution is to change the 2V7 zener for 3V3, to be proven.
4.. Transmit spectrum has 5th order products (from the mixer) only 40dB down on the carrier - not yet solved, investigation continues.
Without modification number 2. the radio really sounded a "dog"! Now it sound quite delightful wandering around 40M, you have to be able to use an RF gain control properly though.... you soon learn! I've spent most of the weekend working on it and I guess there will be many more hours needed before (and if) I have a saleable product.

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Wednesday, August 19, 2009 9:56 PM
Subject: Re: [mkars80] Re: 40 Meters??

> Thanks Ron I will let you know - I'm busy at the moment bagging kits up for
> 3 mobile rallies we have coming up; Rugby, Milton Keynes and Loughborough.
> Steve

[Non-text portions of this message have been removed]

1094. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-23 20:30:42 UTC
From: koyaanisqatsiuk
Topic: 1070 Message: 1094

Well done that man!
We all wait with bated breath I am sure! [:D]

Slim Haines
G4IPZ

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> An update on MKARS40 progress
>
> I modified my development MKARS80 to 40 metres operation by changing the VFO frequency, low-pass filter, band-pass filter and the xtal filter from 10 to 12MHz, the radio worked as I mentioned before but had several problems:
> 1.. Crystal filter was much too wide - this has been cured by altering termination impedance and load capacitance, now works nicely and sounds good.
> 2.. Dynamic range insufficient - broadcast stations above 7.200MHz have extraordinarily signal strength! The way I've got round this is as follows; fitted a volume control in the fine tune control position and increased the gain of audio amplifier stage Q6 (R18 now 100K), this enables the RF gain to be reduced significantly with the additional benefit that background "hiss" from the front end is reduced. A multi-turn adapter will be used on the VFO. These modifications might be usefull on an MKARS80.
> 3.. Modulation indicator no longer works correctly - viewing the output waveform on the scope shows the transistor no longer "bottoms" at 0V - possible solution is to change the 2V7 zener for 3V3, to be proven.
> 4.. Transmit spectrum has 5th order products (from the mixer) only 40dB down on the carrier - not yet solved, investigation continues.
> Without modification number 2. the radio really sounded a "dog"! Now it sound quite delightful wandering around 40M, you have to be able to use an RF gain control properly though.... you soon learn! I've spent most of the weekend working on it and I guess there will be many more hours needed before (and if) I have a saleable product.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Steve Drury" g6alu@...
> To: mkars80@...
> Sent: Wednesday, August 19, 2009 9:56 PM
> Subject: Re: [mkars80] Re: 40 Meters??
>
>

> > Thanks Ron I will let you know - I'm busy at the moment bagging kits up for
> > 3 mobile rallies we have coming up; Rugby, Milton Keynes and Loughborough.
> > Steve
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

1095. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-08-23 22:12:45 UTC
From: pa0rcl
Topic: 1070 Message: 1095

Fine business Steve, you seem to have made more progress in just one weekend than I did in a month!
The problems you encounter coincide largely with the ones I had. In addition, I had a problem with the frequency display, i.e. with the PIC firmware. I just could not get the PIC to subtract the VFO frequency from 12 MHz instead of 10 MHz. Also, the huff&puff range was insufficient.
I reduced the spurious output by incorporating a 5th order Butterworth filter after the VFO and. Also, I put some trap filters in the receiver's front end an added an AGC circuit.
With all these mods I felt the MKARS40 drifted away too much from the original MKARS80 design, which is brilliant. With the MKARS40 there were just too may things added outside of the original PCB, which made me think that the MKARS40 requires its own approach.
Personally, I hope you will pursue the good work. Perhaps an email-poll (not a post) amongst the members of our community will help to decide whether an MKARS40 is worth the trouble?

73 Ron pa0rcl

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> An update on MKARS40 progress
>
> I modified my development MKARS80 to 40 metres operation by changing the VFO frequency, low-pass filter, band-pass filter and the xtal filter from 10 to 12MHz, the radio worked as I mentioned before but had several problems:
> 1.. Crystal filter was much too wide - this has been cured by altering termination impedance and load capacitance, now works nicely and sounds good.
> 2.. Dynamic range insufficient - broadcast stations above 7.200MHz have extraordinarily signal strength! The way I've got round this is as follows; fitted a volume control in the fine tune control position and increased the gain of audio amplifier stage Q6 (R18 now 100K), this enables the RF gain to be reduced significantly with the additional benefit that background "hiss" from the front end is reduced. A multi-turn adapter will be used on the VFO. These modifications might be usefull on an MKARS80.
> 3.. Modulation indicator no longer works correctly - viewing the output waveform on the scope shows the transistor no longer "bottoms" at 0V - possible solution is to change the 2V7 zener for 3V3, to be proven.
> 4.. Transmit spectrum has 5th order products (from the mixer) only 40dB down on the carrier - not yet solved, investigation continues.
> Without modification number 2. the radio really sounded a "dog"! Now it sound quite delightful wandering around 40M, you have to be able to use an RF gain control properly though.... you soon learn! I've spent most of the weekend working on it and I guess there will be many more hours needed before (and if) I have a saleable product.
>
> Steve G6ALU
>
> ----- Original Message -----

> From: "Steve Drury" <g6alu@...>
> To: <mkars80@...>
> Sent: Wednesday, August 19, 2009 9:56 PM
> Subject: Re: [mkars80] Re: 40 Meters??
>
>
> > Thanks Ron I will let you know - I'm busy at the moment bagging kits up for
> > 3 mobile rallies we have coming up; Rugby, Milton Keynes and Loughborough.
> > Steve
>
>
> [Non-text portions of this message have been removed]
>

1096. MKARS 80 kit completed

Yahoo group: mkars80
Date: 2009-08-24 02:03:38 UTC
From: jarnold144
Topic: 1096 Message: 1096

Hi gang,

Just finished building and testing the receiver part of the MKARS 80 transceiver. Works like a charm...if I didn't have so darn much QRN here...mostly our own Plasma TV I'm afraid.

Kit went together in two days with no problems except some confusion when it came to adding the display, but all good now.

Don't have a mic on the rig yet, so must wait a while to talk. Happened on to the Washington state USA traffic net just as testing began which made alignment easy.

Thanks to Steve for a very nice PCB layout and very good instructions!!

73, John WA6YSY

1097. schematic question, were is swd out.

Yahoo group: mkars80
Date: 2009-08-29 14:55:27 UTC
From: dagmine
Topic: 1097 Message: 1097

Hello all -

Looking over my copy of the schematic I don't seem to be able to find Swd12v out. Only five Swd12 ins. Could someone give me a general location on the schematic were it is.

Thank You

David Goodrow
N1OMO

1098. Re: [mkars80] schematic question, were is swd out.

Yahoo group: mkars80
Date: 2009-08-29 15:01:31 UTC
From: Steve Drury
Topic: 1097 Message: 1098

Just checked the diagram... you are correct! Switched 12V out (with the arrow going out) should be indicated at the cathode of D6.

No one has mentioned that before, I will fix it at next up-issue of the diagram.

Steve G6ALU

----- Original Message -----
From: "dagmine" <davenpam@...>
To: <mkars80@...>
Sent: Saturday, August 29, 2009 3:55 PM
Subject: [mkars80] schematic question, were is swd out.

> Hello all -
>
> Looking over my copy of the schematic I don't seem to be able to find
> Swd12v out. Only five Swd12 ins. Could someone give me a general location
> on the schematic were it is.
>
> Thank You
>
> David Goodrow
> N1OMO
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.71/2333 - Release Date: 08/29/09 06:39:00

1099. Re: schematic question, were is swd out.

Yahoo group: mkars80
Date: 2009-08-29 15:27:54 UTC
From: g3oth
Topic: 1097 Message: 1099

Hi David
There doesn't appear to be a connection shown between the !2 volt plus DC Power Connector on Steve's schematic and SW 12 volt (in).
However if you assume that thereon SW 12v always refers to the 12 volt rail irrespective of being in RX or TX mode you wont go far wrong.
RX 12v is only present when in RX mode and TX 12v is only present when in TX mode, both being dependent on the state of the Relay RLY 1-b, which in turn is switched by the ring of the Mike Jack connection being returned to ground when the latter is activated.
I can assure you that there is no problem with the PCB layout etc. if you insert the components correctly, and you do not need to worry unduly about the relevance of these various 12 volt suffixes when wiring up the kit.
Best of luck with your construction and I am sure you will be delighted with the results.
73 de Charles G3OTH

-- In mkars80@yahoogroups.co.uk, "dagmine" <davenpam@...> wrote:
>
> Hello all -
>
> Looking over my copy of the schematic I don't seem to be able to find Swd12v out. Only five Swd12 ins. Could someone give me a general location on the schematic were it is.
>
> Thank You
>
> David Goodrow
> N1OMO
>

1100. Re: schematic question, were is swd out.

Yahoo group: mkars80
Date: 2009-08-29 15:28:04 UTC
From: g3oth
Topic: 1097 Message: 1100

Hi David
There doesn't appear to be a connection shown between the !2 volt plus DC Power Connector on Steve's schematic and SW 12 volt (in).
However if you assume that thereon SW 12v always refers to the 12 volt rail irrespective of being in RX or TX mode you wont go far wrong.
RX 12v is only present when in RX mode and TX 12v is only present when in TX mode, both being dependent on the state of the Relay RLY 1-b, which in turn is switched by the ring of the Mike Jack connection being returned to ground when the latter is activated.
I can assure you that there is no problem with the PCB layout etc. if you insert the components correctly, and you do not need to worry unduly about the relevance of these various 12 volt suffixes when wiring up the kit.
Best of luck with your construction and I am sure you will be delighted with the results.
73 de Charles G3OTH

-- In mkars80@yahoogroups.co.uk, "dagmine" <davenpam@...> wrote:
>
> Hello all -
>
> Looking over my copy of the schematic I don't seem to be able to find Swd12v out. Only five Swd12 ins. Could someone give me a general location on the schematic were it is.
>
> Thank You
>
> David Goodrow
> N1OMO
>

1101. Differences between versions?

Yahoo group: mkars80
Date: 2009-08-30 04:08:43 UTC
From: ae5xae5x
Topic: 1101 Message: 1101

Good evening all,

I'm finally getting around to building my MKARS80 and see that they are now up to V1.3. Mine is V1.1 and I'm curious about the specific differences between versions. Any changes or substitutions in parts values I should make?

Thanks and 73,

John AE5X
Kingwood, Texas
http://www.ae5x.com/blog/?tag=mkars-80

1102. Differences between versions?

Yahoo group: mkars80
Date: 2009-08-30 04:08:26 UTC
From: ae5xae5x
Topic: 1101 Message: 1102

Good evening all,

I'm finally getting around to building my MKARS80 and see that they are now up to V1.3. Mine is V1.1 and I'm curious about the specific differences between versions. Any changes or substitutions in parts values I should make?

Thanks and 73,

John AE5X
Kingwood, Texas
http://www.ae5x.com/blog/?tag=mkars-80

1103. Re: [mkars80] Differences between versions?

Yahoo group: mkars80
Date: 2009-08-30 04:58:14 UTC
From: Steve Drury
Topic: 1101 Message: 1103

John,
Make sure you use the V1.1 manual as some of the component values differ - these were only due to availability (they went obsolete) not performance.

C59 and C60 changed to 1nF NP0 type capacitors or polystyrene types for a significant improvement in frequency stability. I can send these out to you if you send me a personal mail with your address.

Software has changed to V2.4 which is a little easier to use (in the files section).

Regards,
Steve G6ALU

----- Original Message -----
From: "ae5xae5x" <ae5x@...>
To: <mkars80@...>
Sent: Sunday, August 30, 2009 5:08 AM
Subject: [mkars80] Differences between versions?

> Good evening all,
>
> I'm finally getting around to building my MKARS80 and see that they are
> now up to V1.3. Mine is V1.1 and I'm curious about the specific
> differences between versions. Any changes or substitutions in parts values
> I should make?
>
> Thanks and 73,
>
> John AE5X
> Kingwood, Texas
> http://www.ae5x.com/blog/?tag=mkars-80
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1104. Re: [mkars80] Differences between versions?

Yahoo group: mkars80
Date: 2009-08-30 09:06:34 UTC
From: JEREMY CARVILL
Topic: 1101 Message: 1104

Hi John,

I've just started to build mine also, after receiving it about six months ago! Like you, I was curios as to the differences in the versions. I downloaded and printed the 26 pages of what I thought was the latest version from the site, V1.2 only to discover that the kit referred to version 1.3! I contacted Steve and he let me know the subtle changes so that I wouldn't have to cut down another rain forest somewhere.

Now that I have set about building the kit, I noticed that the final page of the manual clearly shows the changes that have taken place since the first version was released.

I've read every post that has been sent to the forum before I set out to start my kit. Steve, and others have been absolute stars in the advice that they give. The kit is so easy to assemble in a step-by-step logical fashion that even I can be brave enough to have a go. I don't have some of the expensive professional test equipment that some of the builders refer to and so I hope that this won't prevent me in completing a successful transceiver.

So far, I've completed two of the six bags over two evenings. I take my hat off to those whom have reported that they had completed their kit the day after they received it!

Anyway, good luck with your project and hopefully will make contact with you on 80metres sometime in the future. I'm off to start bag number 3!

73's
Jem
Worcester UK
2E0JEM
--- On Sun, 30/8/09, ae5xae5x <ae5x@...> wrote:

From: ae5xae5x <ae5x@...>
Subject: [mkars80] Differences between versions?
To: mkars80@...
Date: Sunday, 30 August, 2009, 5:08 AM

Good evening all,

I'm finally getting around to building my MKARS80 and see that they are now up to V1.3. Mine is V1.1 and I'm curious about the specific differences between versions. Any changes or substitutions in parts values I should make?

Thanks and 73,

John AE5X
Kingwood, Texas
http://www.ae5x. com/blog/ ?tag=mkars- 80

[Non-text portions of this message have been removed]

1105. Problem with the display, or pic

Yahoo group: mkars80
Date: 2009-08-30 21:23:00 UTC
From: marcovdbos
Topic: 1105 Message: 1105

Hello group,

This evening I've finished my Mkars80, per the directions of the manual.
Everything goes well, the RX works, also the display.
But then the display makes contact with the board, and the display only shows strange signs, and direct after that only blocks.
Now the display only shows these blocks, when put on.
I've measure the pic-processor;
pin1=0V
pin2=1,55V
pin3=0,2V
pin4=0,09V
pin5=0V
pin6=4,94V
pin7=0,2V
pin8=4,87V
pin9=2,46V
pin10=1,56V
pin11=1,63V
pin12=2,03V
pin13=0V
pin14=4,94V
pin15=-0,29V
pin16=1,9V
pin17=3,28V
pin18=0V
Powersuply gives 12,4V
I think the display, or the pic is defect, maybe both?
What does you think?
And how I can best solve this?
The rest is working fine.

73,
Marco,
PE3M

1106. Both audio amplifiers

Yahoo group: mkars80
Date: 2009-08-30 22:35:53 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1105 Message: 1106

Just built the CW adaptor.

As everything is going in one box, I obviously don't need both audio amplifiers, we already know that the audio chip is
excessively noisy.

Is there sufficient output from Q3 collector/IC1 pin 3 to drive the CW filter/amplifier and not use MKARS80 IC1?

1107. Re: Differences between versions?

Yahoo group: mkars80
Date: 2009-08-31 05:07:26 UTC
From: ae5xae5x
Topic: 1101 Message: 1107

--- In mkars80@..., JEREMY CARVILL <jerrybloodyvee@...> wrote:
>
> Hi John,
>
> I've just started to build mine also, after receiving it about six months ago! Like you, I was curios as to the differences in the versions. I downloaded and printed the 26 pages of what I thought was the latest version from the site, V1.2 only to discover that the kit referred to version 1.3! I contacted Steve and he let me know the subtle changes so that I wouldn't have to cut down another rain forest somewhere.
>
> Now that I have set about building the kit, I noticed that the final page of the manual clearly shows the changes that have taken place since the first version was released.
>
> I've read every post that has been sent to the forum before I set out to start my kit. Steve, and others have been absolute stars in the advice that they give. The kit is so easy to assemble in a step-by-step logical fashion that even I can be brave enough to have a go. I don't have some of the expensive professional test equipment that some of the builders refer to and so I hope that this won't prevent me in completing a successful transceiver.
>
> So far, I've completed two of the six bags over two evenings. I take my hat off to those whom have reported that they had completed their kit the day after they received it!
>
> Anyway, good luck with your project and hopefully will make contact with you on 80metres sometime in the future. I'm off to start bag number 3!
>

FB Jem - sounds like we're at the same place. I just finished Bag 3 with the exception of the inductors/transformers - I'm taking a breather before I start with those doodads but the board is starting to resemble a radio at this point, isn't it.

I agree with you about the guys who finish this kit so quickly but that's not in the cards for me!

Jem, I've got some *serious* antenna work to do if you and I have any chance of a QSO on 80m with 5 watts. I guess I'll break the news to my wife tomorrow about the 4-square I'll be putting up in the backyard ;-)

73 for now and I look forward to hearing your results with the build,

John AE5X
Kingwood, Texas
http://www.ae5x.com/blog/

1108. Re: [mkars80] Both audio amplifiers

Yahoo group: mkars80
Date: 2009-08-31 08:12:12 UTC
From: Steve Drury
Topic: 1105 Message: 1108

Nigel,

I think "excessively noisy" is an exaggeration after all these aren't HI FI amps! Mine produces a barely discernible audio hiss in to a loudspeaker.

There won't be enough drive at Q3 collector to drive the CW adapter as standard, the CW adapter has an attenuate at its input. Looking at the CW adapter; try removing R38 and connecting otherwise as designed - that might work.

Steve G6ALU

----- Original Message -----
From: "Nigel Gunn G8IFF/W8IFF" <nigel@...>
To: <mkars80@...>
Sent: Sunday, August 30, 2009 11:35 PM
Subject: [mkars80] Both audio amplifiers

> Just built the CW adaptor.
>
> As everything is going in one box, I obviously don't need both audio
> amplifiers, we already know that the audio chip is
> excessively noisy.
>
> Is there sufficient output from Q3 collector/IC1 pin 3 to drive the CW
> filter/amplifier and not use MKARS80 IC1?
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.71/2335 - Release Date: 08/30/09 06:36:00

1109. Re: [mkars80] Problem with the display, or pic

Yahoo group: mkars80
Date: 2009-08-31 08:29:02 UTC
From: Steve Drury
Topic: 1105 Message: 1109

Marco,

Looks like the display is zapped... I will contact you directly to make arrangements for a replacement.

Steve G6ALU

----- Original Message -----
From: "marcovdbos" <marcosyl@...>
To: <mkars80@...>
Sent: Sunday, August 30, 2009 10:23 PM
Subject: [mkars80] Problem with the display, or pic

> Hello group,
>
> This evening I've finished my Mkars80, per the directions of the manual.
> Everything goes well, the RX works, also the display.
> But then the display makes contact with the board, and the display only
> shows strange signs, and direct after that only blocks.
> Now the display only shows these blocks, when put on.
> I've measure the pic-processor;
> pin1=0V
> pin2=1,55V
> pin3=0,2V
> pin4=0,09V
> pin5=0V
> pin6=4,94V
> pin7=0,2V
> pin8=4,87V
> pin9=2,46V
> pin10=1,56V
> pin11=1,63V
> pin12=2,03V
> pin13=0V
> pin14=4,94V
> pin15=-0,29V
> pin16=1,9V
> pin17=3,28V
> pin18=0V
> Powersuply gives 12,4V
> I think the display, or the pic is defect, maybe both?
> What does you think?
> And how I can best solve this?
> The rest is working fine.
>
> 73,

> Marco,
> PE3M
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.71/2335 - Release Date: 08/30/09
06:36:00

1110. Re: Differences between versions?

Yahoo group: mkars80
Date: 2009-08-31 08:35:05 UTC
From: ae5xae5x
Topic: 1101 Message: 1110

Steve, did you receive the email I sent you yesterday?

> C59 and C60 changed to 1nF NP0 type capacitors or polystyrene types for a
> significant improvement in frequency stability. I can send these out to you
> if you send me a personal mail with your address.

1111. Re: [mkars80] Re: Differences between versions?

Yahoo group: mkars80
Date: 2009-08-31 09:03:44 UTC
From: Steve Drury
Topic: 1101 Message: 1111

Yes... I was at the Milton Keynes radio rally yesterday so haven't had a chance to reply.. parts wil be sent Tuesday as its a public holiday today.

Steve G6ALU

----- Original Message -----
From: "ae5xae5x" <ae5x@...>
To: <mkars80@...>
Sent: Monday, August 31, 2009 9:35 AM
Subject: [mkars80] Re: Differences between versions?

> Steve, did you receive the email I sent you yesterday?
>
>
>
>> C59 and C60 changed to 1nF NP0 type capacitors or polystyrene types for a
>> significant improvement in frequency stability. I can send these out to
>> you
>> if you send me a personal mail with your address.
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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>

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Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.72/2337 - Release Date: 08/31/09 05:50:00

1112. Re: Problem with the display, or pic

Yahoo group: mkars80
Date: 2009-08-31 09:10:00 UTC
From: marcovdbos
Topic: 1105 Message: 1112

Hi Steve,

No need to, I've fixed the problem.
The wires of the display makes no good contact.
I'm on my work now, and get some thicker wires, that fits beter, and that will do the trick!
Also put some tape on the back of the LCD.
Thanks for your quick response.

73,
Marco,
PE3M

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Marco,
>
> Looks like the display is zapped... I will contact you directly to make
> arrangements for a replacement.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "marcovdbos" <marcosyl@...>
> To: <mkars80@...>
> Sent: Sunday, August 30, 2009 10:23 PM
> Subject: [mkars80] Problem with the display, or pic
>
>
> > Hello group,
> >
> > This evening I've finished my Mkars80, per the directions of the manual.
> > Everything goes well, the RX works, also the display.
> > But then the display makes contact with the board, and the display only
> > shows strange signs, and direct after that only blocks.
> > Now the display only shows these blocks, when put on.
> > I've measure the pic-processor;
> > pin1=0V
> > pin2=1,55V
> > pin3=0,2V
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> > pin8=4,87V
> > pin9=2,46V

> > pin10=1,56V
> > pin11=1,63V
> > pin12=2,03V
> > pin13=0V
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> > pin15=-0,29V
> > pin16=1,9V
> > pin17=3,28V
> > pin18=0V
> > Powersuply gives 12,4V
> > I think the display, or the pic is defect, maybe both?
> > What does you think?
> > And how I can best solve this?
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> >
> > 73,
> > Marco,
> > PE3M
> >
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.71/2335 - Release Date: 08/30/09
> 06:36:00
>

1113. Re: [mkars80] Re: Problem with the display, or pic

Yahoo group: mkars80
Date: 2009-08-31 10:41:58 UTC
From: Steve Drury
Topic: 1105 Message: 1113

No problem Marco, best of luck. Steve

----- Original Message -----
From: "marcovdbos" <marcosyl@...>
To: <mkars80@...>
Sent: Monday, August 31, 2009 10:10 AM
Subject: [mkars80] Re: Problem with the display, or pic

> Hi Steve,
>
> No need to, I've fixed the problem.
> The wires of the display makes no good contact.
> I'm on my work now, and get some thicker wires, that fits beter, and that
> will do the trick!
> Also put some tape on the back of the LCD.
> Thanks for your quick response.
>
> 73,
> Marco,
> PE3M
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Marco,
>>
>> Looks like the display is zapped... I will contact you directly to make
>> arrangements for a replacement.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "marcovdbos" <marcosyl@...>
>> To: <mkars80@...>
>> Sent: Sunday, August 30, 2009 10:23 PM
>> Subject: [mkars80] Problem with the display, or pic
>>
>>
>> > Hello group,
>> >
>> > This evening I've finished my Mkars80, per the directions of the
>> > manual.
>> > Everything goes well, the RX works, also the display.
>> > But then the display makes contact with the board, and the display only
>> > shows strange signs, and direct after that only blocks.

>> > Now the display only shows these blocks, when put on.
>> > I've measure the pic-processor;
>> > pin1=0V
>> > pin2=1,55V
>> > pin3=0,2V
>> > pin4=0,09V
>> > pin5=0V
>> > pin6=4,94V
>> > pin7=0,2V
>> > pin8=4,87V
>> > pin9=2,46V
>> > pin10=1,56V
>> > pin11=1,63V
>> > pin12=2,03V
>> > pin13=0V
>> > pin14=4,94V
>> > pin15=-0,29V
>> > pin16=1,9V
>> > pin17=3,28V
>> > pin18=0V
>> > Powersuply gives 12,4V
>> > I think the display, or the pic is defect, maybe both?
>> > What does you think?
>> > And how I can best solve this?
>> > The rest is working fine.
>> >
>> > 73,
>> > Marco,
>> > PE3M
>> >
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>> > ------------------------------------
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>> > Yahoo! Groups Links
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.409 / Virus Database: 270.13.71/2335 - Release Date:
>> 08/30/09
>> 06:36:00

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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.72/2337 - Release Date: 08/31/09
05:50:00

1114. Re: [mkars80] Re: Problem with the display, or pic

Yahoo group: mkars80
Date: 2009-08-31 15:23:48 UTC
From: Tony Olewicz
Topic: 1105 Message: 1114

Keep the plastic tray thing you get when you by something blister packaged.
Its ideal for backing circuit boards like the MKARS 80 display.
The boxy type ones that you buy things in are also great for mixing two-part adhesives in.

--- On Mon, 31/8/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Re: Problem with the display, or pic
To: mkars80@...
Date: Monday, 31 August, 2009, 11:41 AM

No problem Marco, best of luck. Steve

----- Original Message -----

From: "marcovdbos" <marcosyl@xs4all. nl>

To: <mkars80@yahoogroups .co.uk>

Sent: Monday, August 31, 2009 10:10 AM

Subject: [mkars80] Re: Problem with the display, or pic

> Hi Steve,

>

> No need to, I've fixed the problem.

> The wires of the display makes no good contact.

> I'm on my work now, and get some thicker wires, that fits beter, and that

> will do the trick!

> Also put some tape on the back of the LCD.

> Thanks for your quick response.

>

> 73,

> Marco,

> PE3M

>

>

> --- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:

>>

>> Marco,

>>

>> Looks like the display is zapped... I will contact you directly to make

>> arrangements for a replacement.

>>

>> Steve G6ALU

>>

>> ----- Original Message -----

>> From: "marcovdbos" <marcosyl@.. .>

>> To: <mkars80@yahoogroups .co.uk>

>> Sent: Sunday, August 30, 2009 10:23 PM

>> Subject: [mkars80] Problem with the display, or pic

>>

>>

>> > Hello group,

>> >

>> > This evening I've finished my Mkars80, per the directions of the

>> > manual.

>> > Everything goes well, the RX works, also the display.

>> > But then the display makes contact with the board, and the display only

>> > shows strange signs, and direct after that only blocks.

>> > Now the display only shows these blocks, when put on.

>> > I've measure the pic-processor;

>> > pin1=0V

>> > pin2=1,55V

>> > pin3=0,2V

>> > pin4=0,09V

>> > pin5=0V

>> > pin6=4,94V

>> > pin7=0,2V

>> > pin8=4,87V

>> > pin9=2,46V

>> > pin10=1,56V

>> > pin11=1,63V

>> > pin12=2,03V

>> > pin13=0V

>> > pin14=4,94V

>> > pin15=-0,29V

>> > pin16=1,9V

>> > pin17=3,28V

>> > pin18=0V

>> > Powersuply gives 12,4V

>> > I think the display, or the pic is defect, maybe both?

>> > What does you think?

>> > And how I can best solve this?

>> > The rest is working fine.

>> >

>> > 73,

>> > Marco,

>> > PE3M

>> >

>> >

>> >

>> >

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>> > Yahoo! Groups Links

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>> No virus found in this incoming message.

>> Checked by AVG - www.avg.com

>> Version: 8.5.409 / Virus Database: 270.13.71/2335 - Release Date:

>> 08/30/09

>> 06:36:00

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> Yahoo! Groups Links

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No virus found in this incoming message.

Checked by AVG - www.avg.com

Version: 8.5.409 / Virus Database: 270.13.72/2337 - Release Date: 08/31/09

05:50:00

[Non-text portions of this message have been removed]

1115. Are the CW adapters available yet?

Yahoo group: mkars80
Date: 2009-09-01 21:55:24 UTC
From: rameses32
Topic: 1115 Message: 1115

And if so how do I order one with my MKARS80 Kit, I will be ordering it next week and would like to order a cw adapter kit with keyer option and a case too at the same time. Now if you guys had an ATU that fit into the same size case, woohoo:)
CHarley
VK2ZYZ

1116. Re: Are the CW adapters available yet?

Yahoo group: mkars80
Date: 2009-09-01 23:23:00 UTC
From: g3oth
Topic: 1115 Message: 1116

Charley, Steve has probably gone off to bed as its late over here now, but he will likely reply to you first thing in the morning. As far as I know the CW kit is available off the shelf now and it incorporates the auto keyer as standard. I built one here about 4 or 5 months ago when he first launched it and it works fine.
A case comes with the transceiver kit but you will have to ask Steve to quote you separately for a case for the adapter.
As far as the ATU is concerned most guys seem to be using there own favourite configuration, but I agree, there could be some mileage in doing a kit that incorporates an AMU, Dummy Load and Power / SWR Meter to complement the MKARS80 if the take up and price was right and Steve was prepared to give it a go.
73 de Charles G3OTH

1117. Re: [mkars80] Are the CW adapters available yet?

Yahoo group: mkars80
Date: 2009-09-02 05:58:45 UTC
From: Steve Drury
Topic: 1115 Message: 1117

CW adpaters are available ex stock, cost is GBP 28... I will give you a
quote by direct email as there are several options.

Steve G6ALU

----- Original Message -----
From: "rameses32" <rameses32@...>
To: <mkars80@...>
Sent: Tuesday, September 01, 2009 10:55 PM
Subject: [mkars80] Are the CW adapters available yet?

> And if so how do I order one with my MKARS80 Kit, I will be ordering it
> next week and would like to order a cw adapter kit with keyer option and a
> case too at the same time. Now if you guys had an ATU that fit into the
> same size case, woohoo:)
> CHarley
> VK2ZYZ
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.74/2339 - Release Date: 09/01/09
06:52:00

1118. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-09-03 19:59:46 UTC
From: Steve Drury
Topic: 1070 Message: 1118

Latest update on the MKARS40

From last time...

" 4.. Transmit spectrum has 5th order products (from the mixer) only 40dB down on the carrier - not yet solved, investigation continues."

Investigation showed they weren't 5th order but 3rd order products, by tuning across the band some were only 15dB down!

I substituted an SBL1 mixer for the homebrew one and the problem disappeared so then decided to try some very expensive Schottky diodes in place of the 1N4148s. Whilst fitting the diodes I noticed a broken wire on one of the ballun cores - repairing it fixed the spurii problem, whoops!

Any unwanted spurii are now between 55 and 60dB down on the PEP signal, is this sufficient? As I stated before the controls would change and are now (from left to right) AF gain, tune and RF gain; having the AF gain on the left and RF gain on the right is unorthodox but is it acceptable - comments are invited.

Steve G6ALU

[Non-text portions of this message have been removed]

1119. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-09-03 20:46:18 UTC
From: Liz & Tony Buckland
Topic: 1070 Message: 1119

Hello Steve,

Well done on the experiments and OK on the "whoops" we all have those :-).

I can't see a problem with the AF & RF controls being unorthodox. And as the tuning is in reverse we can think of it as a mirror image, OK enough of this flippancy. Seriously though its acceptable in my books and I will look forward to one if they go into production.

Cheers and 73 Tony ZL3HAM

At 07:59 4/09/2009, you wrote:
>
>
>Latest update on the MKARS40
>
> From last time...
>
>" 4.. Transmit spectrum has 5th order products (from the mixer) only
>40dB down on the carrier - not yet solved, investigation continues."
>
>Investigation showed they weren't 5th order but 3rd order products,
>by tuning across the band some were only 15dB down!
>
>I substituted an SBL1 mixer for the homebrew one and the problem
>disappeared so then decided to try some very expensive Schottky
>diodes in place of the 1N4148s. Whilst fitting the diodes I noticed
>a broken wire on one of the ballun cores - repairing it fixed the
>spurii problem, whoops!
>
>Any unwanted spurii are now between 55 and 60dB down on the PEP
>signal, is this sufficient? As I stated before the controls would
>change and are now (from left to right) AF gain, tune and RF gain;
>having the AF gain on the left and RF gain on the right is
>unorthodox but is it acceptable - comments are invited.
>
>Steve G6ALU
>
>[Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

1120. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-09-03 21:15:25 UTC
From: pa0rcl
Topic: 1070 Message: 1120

FB Steve and congrats on the good results. I take it that no mods to the PCB were necessary, just different component values?

73 Ron pa0rcl

1121. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-09-03 21:23:17 UTC
From: koyaanisqatsiuk
Topic: 1070 Message: 1121

Well Steve that's no worse than concentric AF/RF gain pots on Kenwood equipment and where the RF gain pot, when turned down drives the S meter hard over to the right!

Slim G4IPZ

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>..... As I stated before the controls would change and are now (from left to right) AF gain, tune and RF gain; having the AF gain on the left and RF gain on the right is unorthodox but is it acceptable - comments are invited.
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>

1122. Function of the LED

Yahoo group: mkars80
Date: 2009-09-04 05:35:24 UTC
From: Nick Brok
Topic: 1122 Message: 1122

Hello,

Perhaps a stupid question, but how does the LED works. When I push the PTT it lights up and when I modulate the light is dimming in the same rhythm as my modulation.
I thought it works in the opposite way.
I'm a little bit confused.... What kind of information does this LED give me?

Greetings,

Nick Brok, de Pe1GOO
--
Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paji kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"
Berliozlaan 1 NL5654 SM Eindhoven Netherlands

Send instant messages to your online friends http://uk.messenger.yahoo.com

1123. LAYOUT OFKNOBS.....

Yahoo group: mkars80
Date: 2009-09-04 12:18:07 UTC
From: Joe Blogs
Topic: 1123 Message: 1123

Dear Steve,
For many years I've built and bought commercial rigs the layout has always beenLeft to Right. AF Tune, RF,
Best Regards, Sid.....

[Non-text portions of this message have been removed]

1124. Re: Function of the LED

Yahoo group: mkars80
Date: 2009-09-04 14:22:50 UTC
From: m1cxk
Topic: 1122 Message: 1124

--- In mkars80@..., Nick Brok <pe1goo@...> wrote:
>
> Hello,
>
> Perhaps a stupid question, but how does the LED works. When I push the PTT it lights up and when I modulate the light is dimming in the same rhythm as my modulation.
> I thought it works in the opposite way.
> I'm a little bit confused.... What kind of information does this LED give me?
>
> Greetings,
>
> Nick Brok, de Pe1GOO
> --
>
>
> Send instant messages to your online friends http://uk.messenger.yahoo.com
>
Hi Nick

Page 16 of the instructions (Modulation indicator)V1.3 should explain it. Your soon get to know best distance for good tx audio,over 120 contacts so far here in jo01 with my version.
Good luck
Allen

1125. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-09-04 15:45:40 UTC
From: Steve Drury
Topic: 1070 Message: 1125

Hi Ron,

The only mod on the PCB (apart from MANY value changes) was to remove R28 and in its place fit 2 wires to the AF gain control.

When I have time I will publish the AF gain control modification as I feel some will benefit from it on 80M - you need a slow motion drive first of course! I'm just about to check availability.....

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <ronvingerling@...>
To: <mkars80@...>
Sent: Thursday, September 03, 2009 10:15 PM
Subject: [mkars80] Re: 40 Meters??

> FB Steve and congrats on the good results. I take it that no mods to the
> PCB were necessary, just different component values?
>
> 73 Ron pa0rcl
>
>
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.76/2343 - Release Date: 09/03/09 05:50:00

1126. Re: [mkars80] Re: Function of the LED

Yahoo group: mkars80
Date: 2009-09-04 15:51:44 UTC
From: Steve Drury
Topic: 1122 Message: 1126

Thanks for answering Allen,

The LED is powered from the TX supply so will light when the PTT is pressed; the LED driver circuit also monitors the voltage on the PA transistor Drain, when the transistor "bottoms", that is when it is turned on and becomes non linear the LED will turn off.

By monitoring the LED during TX it is possible to ensure you don't over drive the PA stage, the drive required (how loud and close you speak in to the microphone) depends on supply voltage and antenna impedance. Remember the simple transmitter doesn't have ALC, you have to perform that function!

Regards,
Steve G6ALU

----- Original Message -----
From: "m1cxk" <ALLENCrdr@...>
To: <mkars80@...>
Sent: Friday, September 04, 2009 3:22 PM
Subject: [mkars80] Re: Function of the LED

> --- In mkars80@..., Nick Brok <pe1goo@...> wrote:
>>
>> Hello,
>>
>> Perhaps a stupid question, but how does the LED works. When I push the
>> PTT it lights up and when I modulate the light is dimming in the same
>> rhythm as my modulation.
>> I thought it works in the opposite way.
>> I'm a little bit confused.... What kind of information does this LED give
>> me?
>>
>> Greetings,
>>
>> Nick Brok, de Pe1GOO
>> --
>>
>>
>> Send instant messages to your online friends
>> http://uk.messenger.yahoo.com
>>
> Hi Nick
>
> Page 16 of the instructions (Modulation indicator)V1.3 should explain it.
> Your soon get to know best distance for good tx audio,over 120 contacts so
> far here in jo01 with my version.

> Good luck
> Allen
>
>
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>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.76/2343 - Release Date: 09/03/09
05:50:00

1127. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-09-04 17:12:59 UTC
From: pa0rcl
Topic: 1070 Message: 1127

Hi Steve,

I do appreciate the fact that many component values had to be changed and I am very interested to know which ones, and their new values. You will remember that I sent you such a list when I modified one of my MKARS80's into an MKARS 40 last March. Also, I am interested in the modified PIC code as the IF is now 12 MHz instead of 10.

For me personally the placement of the various pots on the PCB is not an issue as I use detached ones and instead of a slow motion drive I use a 10-turn pot for the varactor tuning. I also split up the band the band in three switchable 100 KHz segments, so each turn of the pot is 10kHz on the average. Thus, no further fine control is needed for the tuning. After a year or so of use, I am still quite happy with this.

I do hope you can find the time to post the list of changes and the modified code for those interested. At least I will be more than happy to act as a beta-tester. I will buy another MKARS80 to convert it into a 40 right away rather than having to desolder many components from an exsting MKARS80 and maybe damage the PCB.

Thanks and 73,

Ron de pa0rcl

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Ron,
>
> The only mod on the PCB (apart from MANY value changes) was to remove R28
> and in its place fit 2 wires to the AF gain control.
>
> When I have time I will publish the AF gain control modification as I feel
> some will benefit from it on 80M - you need a slow motion drive first of
> course! I'm just about to check availability.....
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <ronvingerling@...>
> To: <mkars80@...>
> Sent: Thursday, September 03, 2009 10:15 PM
> Subject: [mkars80] Re: 40 Meters??
>
>
> > FB Steve and congrats on the good results. I take it that no mods to the
> > PCB were necessary, just different component values?
> >
> > 73 Ron pa0rcl

> >
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>
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> Version: 8.5.409 / Virus Database: 270.13.76/2343 - Release Date: 09/03/09
> 05:50:00
>

1128. Re: [mkars80] Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-09-04 18:23:13 UTC
From: Steve Drury
Topic: 1070 Message: 1128

Ron,

I will review your component list and see if there is any commonality...
give me a while and I will post the changes. First I would like to give the
radio to a keen 40M operator for their opinion!

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <ronvingerling@...>
To: <mkars80@...>
Sent: Friday, September 04, 2009 6:12 PM
Subject: [mkars80] Re: 40 Meters??

> Hi Steve,
>
> I do appreciate the fact that many component values had to be changed and
> I am very interested to know which ones, and their new values. You will
> remember that I sent you such a list when I modified one of my MKARS80's
> into an MKARS 40 last March. Also, I am interested in the modified PIC
> code as the IF is now 12 MHz instead of 10.
>
> For me personally the placement of the various pots on the PCB is not an
> issue as I use detached ones and instead of a slow motion drive I use a
> 10-turn pot for the varactor tuning. I also split up the band the band in
> three switchable 100 KHz segments, so each turn of the pot is 10kHz on the
> average. Thus, no further fine control is needed for the tuning. After a
> year or so of use, I am still quite happy with this.
>
> I do hope you can find the time to post the list of changes and the
> modified code for those interested. At least I will be more than happy to
> act as a beta-tester. I will buy another MKARS80 to convert it into a 40
> right away rather than having to desolder many components from an exsting
> MKARS80 and maybe damage the PCB.
>
> Thanks and 73,
>
> Ron de pa0rcl
>
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hi Ron,
>>

>> The only mod on the PCB (apart from MANY value changes) was to remove R28
>> and in its place fit 2 wires to the AF gain control.
>>
>> When I have time I will publish the AF gain control modification as I
>> feel
>> some will benefit from it on 80M - you need a slow motion drive first of
>> course! I'm just about to check availability.....
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "pa0rcl" <ronvingerling@...>
>> To: <mkars80@...>
>> Sent: Thursday, September 03, 2009 10:15 PM
>> Subject: [mkars80] Re: 40 Meters??
>>
>>
>> > FB Steve and congrats on the good results. I take it that no mods to
>> > the
>> > PCB were necessary, just different component values?
>> >
>> > 73 Ron pa0rcl
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.409 / Virus Database: 270.13.76/2343 - Release Date:
>> 09/03/09
>> 05:50:00
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> ----------------------------------

>
> Yahoo! Groups Links
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>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.76/2345 - Release Date: 09/04/09
05:51:00

1129. Re: 40 Meters??

Yahoo group: mkars80
Date: 2009-09-04 21:15:30 UTC
From: pa0rcl
Topic: 1070 Message: 1129

Thank you, Steve, I look forward to your post now!

73 Ron de pa0rcl

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Ron,
>
> I will review your component list and see if there is any commonality...
> give me a while and I will post the changes. First I would like to give the
> radio to a keen 40M operator for their opinion!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <ronvingerling@...>
> To: <mkars80@...>
> Sent: Friday, September 04, 2009 6:12 PM
> Subject: [mkars80] Re: 40 Meters??
>
>
> > Hi Steve,
> >
> > I do appreciate the fact that many component values had to be changed and
> > I am very interested to know which ones, and their new values. You will
> > remember that I sent you such a list when I modified one of my MKARS80's
> > into an MKARS 40 last March. Also, I am interested in the modified PIC
> > code as the IF is now 12 MHz instead of 10.
> >
> > For me personally the placement of the various pots on the PCB is not an
> > issue as I use detached ones and instead of a slow motion drive I use a
> > 10-turn pot for the varactor tuning. I also split up the band the band in
> > three switchable 100 KHz segments, so each turn of the pot is 10kHz on the
> > average. Thus, no further fine control is needed for the tuning. After a
> > year or so of use, I am still quite happy with this.
> >
> > I do hope you can find the time to post the list of changes and the
> > modified code for those interested. At least I will be more than happy to
> > act as a beta-tester. I will buy another MKARS80 to convert it into a 40
> > right away rather than having to desolder many components from an exsting
> > MKARS80 and maybe damage the PCB.
> >
> > Thanks and 73,
> >
> > Ron de pa0rcl

> >
> >
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Hi Ron,
> >>
> >> The only mod on the PCB (apart from MANY value changes) was to remove R28
> >> and in its place fit 2 wires to the AF gain control.
> >>
> >> When I have time I will publish the AF gain control modification as I
> >> feel
> >> some will benefit from it on 80M - you need a slow motion drive first of
> >> course! I'm just about to check availability.....
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "pa0rcl" <ronvingerling@>
> >> To: <mkars80@...>
> >> Sent: Thursday, September 03, 2009 10:15 PM
> >> Subject: [mkars80] Re: 40 Meters??
> >>
> >>
> >> > FB Steve and congrats on the good results. I take it that no mods to
> >> > the
> >> > PCB were necessary, just different component values?
> >> >
> >> > 73 Ron pa0rcl
> >> >
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> >> > ------------------------------------
> >> >
> >> > Yahoo! Groups Links
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> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.409 / Virus Database: 270.13.76/2343 - Release Date:

> >> 09/03/09
> >> 05:50:00
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.76/2345 - Release Date: 09/04/09
> 05:51:00
>

1130. Re: [mkars80] Re: Function of the LED

Yahoo group: mkars80
Date: 2009-09-05 04:46:00 UTC
From: Nick Brok
Topic: 1122 Message: 1130

Hi Steve,

Thanks for explanation... page 16 didn't explain much to me, perhaps my English is to bad. So if the LED isn't lighting up then my modulation is to high.

Thanks.

Greetings,

Nick Brok, de Pe1GOO

--

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

--- On Fri, 9/4/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Re: Function of the LED
To: mkars80@...
Date: Friday, September 4, 2009, 5:51 PM

Thanks for answering Allen,

The LED is powered from the TX supply so will light when the PTT is pressed;

the LED driver circuit also monitors the voltage on the PA transistor Drain,

when the transistor "bottoms", that is when it is turned on and becomes non

linear the LED will turn off.

By monitoring the LED during TX it is possible to ensure you don't over

drive the PA stage, the drive required (how loud and close you speak in to

the microphone) depends on supply voltage and antenna impedance. Remember

the simple transmitter doesn't have ALC, you have to perform that function!

Regards,

Steve G6ALU

.

Send instant messages to your online friends http://uk.messenger.yahoo.com

[Non-text portions of this message have been removed]

1131. Re: [mkars80] Re: Function of the LED

Yahoo group: mkars80
Date: 2009-09-05 12:20:41 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1122 Message: 1131

If the led goes out excessively whilst speaking, your modulation is too high.

Nick Brok wrote:
> Hi Steve,
>
> Thanks for explanation... page 16 didn't explain much to me, perhaps my English is to bad.
> So if the LED isn't lighting up then my modulation is to high.
>

1132. A new MKARS80 is born

Yahoo group: mkars80
Date: 2009-09-06 00:12:08 UTC
From: ae5xae5x
Topic: 1132 Message: 1132

Completed construction today of the components (still have the metal work to go) and the receiver gets a clean bill of health. A typical summer-in-Houston thunderstorm cut the fun short but I had enough time with the rig on the antenna to know all is well so far.

73,

John Harper AE5X
http://www.ae5x.com/blog/

1133. Re: [mkars80] A new MKARS80 is born

Yahoo group: mkars80
Date: 2009-09-06 06:55:47 UTC
From: Steve Drury
Topic: 1132 Message: 1133

Glad to hear its working well... have the capacitors arrived yet?

Steve G6ALU

----- Original Message -----
From: "ae5xae5x" <ae5x@...>
To: <mkars80@...>
Sent: Sunday, September 06, 2009 1:12 AM
Subject: [mkars80] A new MKARS80 is born

> Completed construction today of the components (still have the metal work
> to go) and the receiver gets a clean bill of health. A typical
> summer-in-Houston thunderstorm cut the fun short but I had enough time
> with the rig on the antenna to know all is well so far.
>
> 73,
>
> John Harper AE5X
> http://www.ae5x.com/blog/
>
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> ------------------------------------
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.78/2347 - Release Date: 09/05/09
05:51:00

1134. re sked !

Yahoo group: mkars80
Date: 2009-09-06 10:51:35 UTC
From: Graham Bloor
Topic: 1134 Message: 1134

Hi all, poor conditions today (S9 noise level) could hear one stn. but could'nt read.
Just finished my CW Adapter and seems to work OK. Maybe if anyone else
has one up and running we could QSY to 3.560 if 3.690 is poor? (QRS PSE !)
72/73 Graham G3UD

[Non-text portions of this message have been removed]

1135. Re: [mkars80] re sked !

Yahoo group: mkars80
Date: 2009-09-06 10:55:39 UTC
From: Steve Drury
Topic: 1134 Message: 1135

Sorry I haven't been on the sked for a couple of weeks - MK Rally last week and a trip to the out of hours doctor today.

I wont be on again next week as Radio-Kits will be at the Loughborough rally.

Steve G6ALU

----- Original Message -----
From: "Graham Bloor" <graham.bloor@...>
To: <mkars80@...>
Sent: Sunday, September 06, 2009 11:51 AM
Subject: [mkars80] re sked !

Hi all, poor conditions today (S9 noise level) could hear one stn. but could'nt read.
Just finished my CW Adapter and seems to work OK. Maybe if anyone else has one up and running we could QSY to 3.560 if 3.690 is poor? (QRS PSE !)
72/73 Graham G3UD

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.80/2349 - Release Date: 09/06/09 05:51:00

1136. Just ordered my MKARS Kit today

Yahoo group: mkars80
Date: 2009-09-06 11:56:44 UTC
From: rameses32
Topic: 1136 Message: 1136

And I am so excited I don't think I will be able to sleep till it gets here. Yes I am still just as bad as when I was 5 and proud of it. Drives my wife crazy:)
Charley
VK2ZYZ

1137. Re: A new MKARS80 is born

Yahoo group: mkars80
Date: 2009-09-06 15:16:23 UTC
From: ae5xae5x
Topic: 1132 Message: 1137

Not yet Steve - we are having a holiday weekend here with no mail service till Tuesday. I tuned around last night and there were wall-to-wall signals up and down the phone portion of the band from several call areas. Antenna is an 80m dipole up 65 feet. What amazed me was how quiet the receiver is between signals. I'm primarily a CW operator and among all the CW QRP kits out there, the OHR-100 series is well-known (and loved) for this trait...makes extended listening so much more comfortable.

Several stateside hams have emailed me to tell me that they have the kit but have not yet started construction. One of them is literally down the street from me. I wish they'd fire up the soldering iron so we could enjoy an MKARS80-type net like you G-guys are doing...

73,

John AE5X
Kingwood, Texas
http://www.ae5x.com/blog

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Glad to hear its working well... have the capacitors arrived yet?
>
> Steve G6ALU

1138. Re: re sked !

Yahoo group: mkars80
Date: 2009-09-06 16:07:51 UTC
From: m1cxk
Topic: 1134 Message: 1138

--- In mkars80@..., Graham Bloor <graham.bloor@...> wrote:
>
> Hi all, poor conditions today (S9 noise level) could hear one stn. but could'nt read.
>   Just finished my CW Adapter and seems to work OK. Maybe if anyone else
>   has one up and running we could QSY to 3.560 if 3.690 is poor? (QRS PSE !)
>   72/73 Graham G3UD
>
> I worked Roger G8JWT this morning on the MKARS80 Net freq at 09.50hrs,it could have been us that you heard Graham.
>
73
Allen
M1CXK
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>
> [Non-text portions of this message have been removed]
>

1139. Re: [mkars80] Re: re sked !

Yahoo group: mkars80
Date: 2009-09-06 16:16:22 UTC
From: Graham Bloor
Topic: 1134 Message: 1139

Hi Allen yes it was definitely you, just caught the M1c and that was it ,tried to break in with CW but do'nt think you heard me 73s Graham

--- On Sun, 6/9/09, m1cxk <ALLENCrdr@...> wrote:

From: m1cxk <ALLENCrdr@...>
Subject: [mkars80] Re: re sked !
To: mkars80@...
Date: Sunday, 6 September, 2009, 4:07 PM

--- In mkars80@yahoogroups .co.uk, Graham Bloor <graham.bloor@ ...> wrote:
>
> Hi all, poor conditions today (S9 noise level) could hear one stn. but could'nt read.
>   Just finished my CW Adapter and seems to work OK.. Maybe if anyone else
>   has one up and running we could QSY to 3.560 if 3.690 is poor? (QRS PSE !)
>   72/73 Graham G3UD
>
> I worked Roger G8JWT this morning on the MKARS80 Net freq at 09.50hrs,it could have been us that you heard Graham.
>
73
Allen
M1CXK
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> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

1140. WANTED

Yahoo group: mkars80
Date: 2009-09-13 12:52:53 UTC
From: sm6mpa
Topic: 1140 Message: 1140

I whish to get in cotact with TF3LJ-Loftur living in Canada.I can`t
find his e-mail adr.so if you read this Loftur, or any friend of
him,contact me via e-mailadr. sm6mpa@...
best 73 de Hans-sm6mpa

1141. Re: [mkars80] WANTED

Yahoo group: mkars80
Date: 2009-09-13 13:03:11 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1140 Message: 1141

His e-mail address is on his web page at:
http://sites.google.com/site/lofturj

and on his QRZ.com entry.

sm6mpa wrote:
> I whish to get in cotact with TF3LJ-Loftur living in Canada.I can`t
> find his e-mail adr.so if you read this Loftur, or any friend of
> him,contact me via e-mailadr. sm6mpa@...
> best 73 de Hans-sm6mpa
>
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> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.94/2367 - Release Date: 09/13/09 05:50:00
>

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.

1142. Re: WANTED

Yahoo group: mkars80
Date: 2009-09-13 13:17:25 UTC
From: sm6mpa
Topic: 1140 Message: 1142

Thanks for quick help Nigel, i am most greatful.
73 de Hans-SM6MPA
>
> His e-mail address is on his web page at:
> http://sites.google.com/site/lofturj
>
> and on his QRZ.com entry.
>
>
> sm6mpa wrote:
> > I whish to get in cotact with TF3LJ-Loftur living in Canada.I can`t
> > find his e-mail adr.so if you read this Loftur, or any friend of
> > him,contact me via e-mailadr. sm6mpa@...
> > best 73 de Hans-sm6mpa
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> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.409 / Virus Database: 270.13.94/2367 - Release Date: 09/13/09 05:50:00
> >
>
> --
> Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
> Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
> Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International
#385,
> Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.
>

1143. Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-18 23:57:19 UTC
From: rameses32
Topic: 1143 Message: 1143

I'm going over everything right now, but I finished the radio last night, checked the regulator voltages and attached the LCD. The Freq is @.000.000 and all I get is white noise through the speaker, no difference when connected to an antenna. This tell me that the VFO isn't running. I don't have a scope only a volt meter to diagnose with. Right now I am going through all of the solder joints and checking polarities etc, but any hints at this point is greately appreciated.

CHarley
VK2ZYZ

1144. Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-19 00:43:08 UTC
From: rameses32
Topic: 1143 Message: 1144

Grrrr, I checked everything turned it back on and it was working, great, I put it in the case and turned it back on and now it's not working again. pulled it out of the case and it's still not working , checked the 10Mhz test point and got 9.8MHZ checked the vfo test point
and got nothing. Ok, so atleast I now all the bits are working, sounds like I am tracing a bad solder connection or some solder swarf.
Charley

--- In mkars80@....uk, "rameses32" <rameses32@...> wrote:
>
> I'm going over everything right now, but I finished the radio last night, checked the regulator voltages and attached the LCD. The Freq is @.000.000 and all I get is white noise through the speaker, no difference when connected to an antenna. This tell me that the VFO isn't running. I don't have a scope only a volt meter to diagnose with. Right now I am going through all of the solder joints and checking polarities etc, but any hints at this point is greately appreciated.
>
> CHarley
> VK2ZYZ
>

1145. Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-19 01:28:40 UTC
From: rameses32
Topic: 1143 Message: 1145

WooHoo, thanks for the help guys,lol, it was a bad solder joint in L5.

Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.

--- In mkars80@..., "rameses32" <rameses32@...> wrote:
>
> I'm going over everything right now, but I finished the radio last night, checked the regulator voltages and attached the LCD. The Freq is @.000.000 and all I get is white noise through the speaker, no difference when connected to an antenna. This tell me that the VFO isn't running. I don't have a scope only a volt meter to diagnose with. Right now I am going through all of the solder joints and checking polarities etc, but any hints at this point is greately appreciated.
>
> CHarley
> VK2ZYZ
>

1146. Re: [mkars80] Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-19 06:59:58 UTC
From: Steve Drury
Topic: 1143 Message: 1146

Sorry I couldn't help you Charley.. I didn't stay up all night!!

Steve G6ALU @ UTC +1

----- Original Message -----
From: "rameses32" <rameses32@...>
To: <mkars80@...>
Sent: Saturday, September 19, 2009 2:28 AM
Subject: [mkars80] Re: Help wanted, no output from VFO

> WooHoo, thanks for the help guys,lol, it was a bad solder joint in L5.
>
> Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
>
>
> --- In mkars80@..., "rameses32" <rameses32@...> wrote:
>>
>> I'm going over everything right now, but I finished the radio last night,
>> checked the regulator voltages and attached the LCD. The Freq is
>> @.000.000 and all I get is white noise through the speaker, no difference
>> when connected to an antenna. This tell me that the VFO isn't running. I
>> don't have a scope only a volt meter to diagnose with. Right now I am
>> going through all of the solder joints and checking polarities etc, but
>> any hints at this point is greately appreciated.
>>
>> CHarley
>> VK2ZYZ
>>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date: 09/18/09
07:49:00

1147. Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-19 14:19:46 UTC
From: rameses32
Topic: 1143 Message: 1147

No problems at all mate, all I can say is what a Kit! Took me 1 hour to drill and cut the case, 12 hours to solder everything together and fit it to the case and 1 hour trouble shooting and 30 minutes to adjust it. The reciever works great with good selectivity. The audio is very loud and clear, I am quite suprised, it has the best sound I have ever gotten out of a 386. Very stable, minimal drift, comparable to my Kenwood 120S. The whole rig is alot smaller than I was expecting, I didn't relise in the pictures that it uses 1/8 watt resistors, thinking it was 1/4 resistors I thought it would be a bit bigger. All in all, I am blown away by this radio. I'm still trying to make a contact with it. I'm not sure of my output power, it sounds great through my Kenwood sitting next to it but I don't have a power meter to measure output.

I Adjusted R2 from 230mA to 280mA as the manual said but nobody on air has been able to hear me, but everyone I am listening to is more than 500klms away tonight, but I'll keep trying. I'll let ya know when I make my first on air contact.

Charley
VK2ZYZ

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Sorry I couldn't help you Charley.. I didn't stay up all night!!
>
> Steve G6ALU @ UTC +1
>
>
> ----- Original Message -----
> From: "rameses32" <rameses32@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Saturday, September 19, 2009 2:28 AM
> Subject: [mkars80] Re: Help wanted, no output from VFO
>
>
> > WooHoo, thanks for the help guys,lol, it was a bad solder joint in L5.
> >
> > Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
> >
> >
> > --- In mkars80@..., "rameses32" <rameses32@> wrote:
> >>
> >> I'm going over everything right now, but I finished the radio last night,
> >> checked the regulator voltages and attached the LCD. The Freq is
> >> @.000.000 and all I get is white noise through the speaker, no difference
> >> when connected to an antenna. This tell me that the VFO isn't running. I
> >> don't have a scope only a volt meter to diagnose with. Right now I am
> >> going through all of the solder joints and checking polarities etc, but
> >> any hints at this point is greately appreciated.

> >>
> >> CHarley
> >> VK2ZYZ
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date: 09/18/09
> 07:49:00
>

1148. Re: [mkars80] Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-19 14:37:35 UTC
From: Steve Drury
Topic: 1143 Message: 1148

Charley,

Glad you like it - when you talk does the red LED flicker off? It should do, if not you may not be transmitting, also when you talk does the current go up?

Make sure you have adjusted the BFO to 10MHz as this will make a big difference to TX quality.

Regards,
Steve G6ALU

----- Original Message -----
From: "rameses32" <rameses32@...>
To: <mkars80@...>
Sent: Saturday, September 19, 2009 3:19 PM
Subject: [mkars80] Re: Help wanted, no output from VFO

> No problems at all mate, all I can say is what a Kit! Took me 1 hour to
> drill and cut the case, 12 hours to solder everything together and fit it
> to the case and 1 hour trouble shooting and 30 minutes to adjust it. The
> reciever works great with good selectivity. The audio is very loud and
> clear, I am quite suprised, it has the best sound I have ever gotten out
> of a 386. Very stable, minimal drift, comparable to my Kenwood 120S. The
> whole rig is alot smaller than I was expecting, I didn't relise in the
> pictures that it uses 1/8 watt resistors, thinking it was 1/4 resistors I
> thought it would be a bit bigger. All in all, I am blown away by this
> radio. I'm still trying to make a contact with it. I'm not sure of my
> output power, it sounds great through my Kenwood sitting next to it but I
> don't have a power meter to measure output.
>
> I Adjusted R2 from 230mA to 280mA as the manual said but nobody on air has
> been able to hear me, but everyone I am listening to is more than 500klms
> away tonight, but I'll keep trying. I'll let ya know when I make my first
> on air contact.
>
> Charley
> VK2ZYZ
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Sorry I couldn't help you Charley.. I didn't stay up all night!!
>>
>> Steve G6ALU @ UTC +1
>>
>>

>> ----- Original Message -----
>> From: "rameses32" <rameses32@...>
>> To: <mkars80@...>
>> Sent: Saturday, September 19, 2009 2:28 AM
>> Subject: [mkars80] Re: Help wanted, no output from VFO
>>
>>
>> > WooHoo, thanks for the help guys,lol, it was a bad solder joint in L5.
>> >
>> > Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
>> >
>> >
>> > --- In mkars80@..., "rameses32" <rameses32@> wrote:
>> >>
>> >> I'm going over everything right now, but I finished the radio last
>> >> night,
>> >> checked the regulator voltages and attached the LCD. The Freq is
>> >> @.000.000 and all I get is white noise through the speaker, no
>> >> difference
>> >> when connected to an antenna. This tell me that the VFO isn't running.
>> >> I
>> >> don't have a scope only a volt meter to diagnose with. Right now I am
>> >> going through all of the solder joints and checking polarities etc,
>> >> but
>> >> any hints at this point is greately appreciated.
>> >>
>> >> CHarley
>> >> VK2ZYZ
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date:
>> 09/18/09
>> 07:49:00

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.106/2381 - Release Date: 09/18/09
18:14:00

1149. Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-19 15:07:34 UTC
From: rameses32
Topic: 1143 Message: 1149

Just made a couple QSO's about 300klms away, I was current starving the radio by trying to use too small of a battery pack. But the LED still never flickered.
As for current, it only climbs to 330mA when I speak loudly or whistle into the mic.

As for the BFO, there was a net on a specific frequency and I set the radio to that frequency and adjusted the BFO until everyone sounded correct.

Charley
--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Charley,
>
> Glad you like it - when you talk does the red LED flicker off? It should do,
> if not you may not be transmitting, also when you talk does the current go
> up?
>
> Make sure you have adjusted the BFO to 10MHz as this will make a big
> difference to TX quality.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "rameses32" <rameses32@...>
> To: <mkars80@...>
> Sent: Saturday, September 19, 2009 3:19 PM
> Subject: [mkars80] Re: Help wanted, no output from VFO
>
>
> > No problems at all mate, all I can say is what a Kit! Took me 1 hour to
> > drill and cut the case, 12 hours to solder everything together and fit it
> > to the case and 1 hour trouble shooting and 30 minutes to adjust it. The
> > reciever works great with good selectivity. The audio is very loud and
> > clear, I am quite suprised, it has the best sound I have ever gotten out
> > of a 386. Very stable, minimal drift, comparable to my Kenwood 120S. The
> > whole rig is alot smaller than I was expecting, I didn't relise in the
> > pictures that it uses 1/8 watt resistors, thinking it was 1/4 resistors I
> > thought it would be a bit bigger. All in all, I am blown away by this
> > radio. I'm still trying to make a contact with it. I'm not sure of my
> > output power, it sounds great through my Kenwood sitting next to it but I
> > don't have a power meter to measure output.
> >
> > I Adjusted R2 from 230mA to 280mA as the manual said but nobody on air has
> > been able to hear me, but everyone I am listening to is more than 500klms
> > away tonight, but I'll keep trying. I'll let ya know when I make my first

> > on air contact.
> >
> > Charley
> > VK2ZYZ
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Sorry I couldn't help you Charley.. I didn't stay up all night!!
> >>
> >> Steve G6ALU @ UTC +1
> >>
> >>
> >> ----- Original Message -----
> >> From: "rameses32" <rameses32@>
> >> To: <mkars80@...>
> >> Sent: Saturday, September 19, 2009 2:28 AM
> >> Subject: [mkars80] Re: Help wanted, no output from VFO
> >>
> >>
> >> > WooHoo, thanks for the help guys,lol, it was a bad solder joint in L5.
> >> >
> >> > Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
> >> >
> >> >
> >> > --- In mkars80@..., "rameses32" <rameses32@> wrote:
> >> >>
> >> >> I'm going over everything right now, but I finished the radio last
> >> >> night,
> >> >> checked the regulator voltages and attached the LCD. The Freq is
> >> >> @.000.000 and all I get is white noise through the speaker, no
> >> >> difference
> >> >> when connected to an antenna. This tell me that the VFO isn't running.
> >> >> I
> >> >> don't have a scope only a volt meter to diagnose with. Right now I am
> >> >> going through all of the solder joints and checking polarities etc,
> >> >> but
> >> >> any hints at this point is greately appreciated.
> >> >>
> >> >> CHarley
> >> >> VK2ZYZ
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> >> > Yahoo! Groups Links
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> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date:
> >> 09/18/09
> >> 07:49:00
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.106/2381 - Release Date: 09/18/09
> 18:14:00
>

1150. Re: [mkars80] Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-19 15:26:31 UTC
From: Steve Drury
Topic: 1143 Message: 1150

OK, 330mA is low, with a 13V power source I would expect to see an amp or more so I'm afraid there is some more checking to do!

If all the transistor voltages are OK I would check the mixer transformer connections first and then the transformers in the TX section for correct number of turns.

Steve G6ALU

----- Original Message -----
From: "rameses32" <rameses32@...>
To: <mkars80@...>
Sent: Saturday, September 19, 2009 4:07 PM
Subject: [mkars80] Re: Help wanted, no output from VFO

> Just made a couple QSO's about 300klms away, I was current starving the
> radio by trying to use too small of a battery pack. But the LED still
> never flickered.
> As for current, it only climbs to 330mA when I speak loudly or whistle
> into the mic.
>
> As for the BFO, there was a net on a specific frequency and I set the
> radio to that frequency and adjusted the BFO until everyone sounded
> correct.
>
> Charley
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Charley,
>>
>> Glad you like it - when you talk does the red LED flicker off? It should
>> do,
>> if not you may not be transmitting, also when you talk does the current
>> go
>> up?
>>
>> Make sure you have adjusted the BFO to 10MHz as this will make a big
>> difference to TX quality.
>>
>> Regards,
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "rameses32" <rameses32@...>
>> To: <mkars80@...>
>> Sent: Saturday, September 19, 2009 3:19 PM

>> Subject: [mkars80] Re: Help wanted, no output from VFO
>>
>>
>> > No problems at all mate, all I can say is what a Kit! Took me 1 hour to
>> > drill and cut the case, 12 hours to solder everything together and fit
>> > it
>> > to the case and 1 hour trouble shooting and 30 minutes to adjust it.
>> > The
>> > reciever works great with good selectivity. The audio is very loud and
>> > clear, I am quite suprised, it has the best sound I have ever gotten
>> > out
>> > of a 386. Very stable, minimal drift, comparable to my Kenwood 120S.
>> > The
>> > whole rig is alot smaller than I was expecting, I didn't relise in the
>> > pictures that it uses 1/8 watt resistors, thinking it was 1/4 resistors
>> > I
>> > thought it would be a bit bigger. All in all, I am blown away by this
>> > radio. I'm still trying to make a contact with it. I'm not sure of my
>> > output power, it sounds great through my Kenwood sitting next to it but
>> > I
>> > don't have a power meter to measure output.
>> >
>> > I Adjusted R2 from 230mA to 280mA as the manual said but nobody on air
>> > has
>> > been able to hear me, but everyone I am listening to is more than
>> > 500klms
>> > away tonight, but I'll keep trying. I'll let ya know when I make my
>> > first
>> > on air contact.
>> >
>> > Charley
>> > VK2ZYZ
>> >
>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Sorry I couldn't help you Charley.. I didn't stay up all night!!
>> >>
>> >> Steve G6ALU @ UTC +1
>> >>
>> >>
>> >> ----- Original Message -----
>> >> From: "rameses32" <rameses32@>
>> >> To: <mkars80@...>
>> >> Sent: Saturday, September 19, 2009 2:28 AM
>> >> Subject: [mkars80] Re: Help wanted, no output from VFO
>> >>
>> >>
>> >> > WooHoo, thanks for the help guys,lol, it was a bad solder joint in
>> >> > L5.
>> >> >

>> >> > Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
>> >> >
>> >> >
>> >> > --- In mkars80@..., "rameses32" <rameses32@> wrote:
>> >> >>
>> >> >> I'm going over everything right now, but I finished the radio last
>> >> >> night,
>> >> >> checked the regulator voltages and attached the LCD. The Freq is
>> >> >> @.000.000 and all I get is white noise through the speaker, no
>> >> >> difference
>> >> >> when connected to an antenna. This tell me that the VFO isn't
>> >> >> running.
>> >> >> I
>> >> >> don't have a scope only a volt meter to diagnose with. Right now I
>> >> >> am
>> >> >> going through all of the solder joints and checking polarities etc,
>> >> >> but
>> >> >> any hints at this point is greately appreciated.
>> >> >>
>> >> >> CHarley
>> >> >> VK2ZYZ
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>> >>
>> >> No virus found in this incoming message.
>> >> Checked by AVG - www.avg.com
>> >> Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date:
>> >> 09/18/09
>> >> 07:49:00
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>> > Yahoo! Groups Links
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>> No virus found in this incoming message.
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>> Version: 8.5.409 / Virus Database: 270.13.106/2381 - Release Date:
>> 09/18/09
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.106/2381 - Release Date: 09/18/09
18:14:00

1151. Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-19 15:33:36 UTC
From: rameses32
Topic: 1143 Message: 1151

Thanks for that, it's 1:30 AM here so I'm calling it a night, I'll do that tomorrow and let you know how I go, thank you for all the help.
Charley
--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> OK, 330mA is low, with a 13V power source I would expect to see an amp or
> more so I'm afraid there is some more checking to do!
>
> If all the transistor voltages are OK I would check the mixer transformer
> connections first and then the transformers in the TX section for correct
> number of turns.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "rameses32" <rameses32@...>
> To: <mkars80@...>
> Sent: Saturday, September 19, 2009 4:07 PM
> Subject: [mkars80] Re: Help wanted, no output from VFO
>
>
> > Just made a couple QSO's about 300klms away, I was current starving the
> > radio by trying to use too small of a battery pack. But the LED still
> > never flickered.
> > As for current, it only climbs to 330mA when I speak loudly or whistle
> > into the mic.
> >
> > As for the BFO, there was a net on a specific frequency and I set the
> > radio to that frequency and adjusted the BFO until everyone sounded
> > correct.
> >
> > Charley
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Charley,
> >>
> >> Glad you like it - when you talk does the red LED flicker off? It should
> >> do,
> >> if not you may not be transmitting, also when you talk does the current
> >> go
> >> up?
> >>
> >> Make sure you have adjusted the BFO to 10MHz as this will make a big
> >> difference to TX quality.
> >>

> >> Regards,
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "rameses32" <rameses32@>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Saturday, September 19, 2009 3:19 PM
> >> Subject: [mkars80] Re: Help wanted, no output from VFO
> >>
> >>
> >> > No problems at all mate, all I can say is what a Kit! Took me 1 hour to
> >> > drill and cut the case, 12 hours to solder everything together and fit
> >> > it
> >> > to the case and 1 hour trouble shooting and 30 minutes to adjust it.
> >> > The
> >> > reciever works great with good selectivity. The audio is very loud and
> >> > clear, I am quite suprised, it has the best sound I have ever gotten
> >> > out
> >> > of a 386. Very stable, minimal drift, comparable to my Kenwood 120S.
> >> > The
> >> > whole rig is alot smaller than I was expecting, I didn't relise in the
> >> > pictures that it uses 1/8 watt resistors, thinking it was 1/4 resistors
> >> > I
> >> > thought it would be a bit bigger. All in all, I am blown away by this
> >> > radio. I'm still trying to make a contact with it. I'm not sure of my
> >> > output power, it sounds great through my Kenwood sitting next to it but
> >> > I
> >> > don't have a power meter to measure output.
> >> >
> >> > I Adjusted R2 from 230mA to 280mA as the manual said but nobody on air
> >> > has
> >> > been able to hear me, but everyone I am listening to is more than
> >> > 500klms
> >> > away tonight, but I'll keep trying. I'll let ya know when I make my
> >> > first
> >> > on air contact.
> >> >
> >> > Charley
> >> > VK2ZYZ
> >> >
> >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Sorry I couldn't help you Charley.. I didn't stay up all night!!
> >> >>
> >> >> Steve G6ALU @ UTC +1
> >> >>
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "rameses32" <rameses32@>
> >> >> To: <mkars80@...>

> >> >> Sent: Saturday, September 19, 2009 2:28 AM
> >> >> Subject: [mkars80] Re: Help wanted, no output from VFO
> >> >>
> >> >>
> >> >> > WooHoo, thanks for the help guys,lol, it was a bad solder joint in
> >> >> > L5.
> >> >> >
> >> >> > Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
> >> >> >
> >> >> >
> >> >> > --- In mkars80@..., "rameses32" <rameses32@> wrote:
> >> >> >>
> >> >> >> I'm going over everything right now, but I finished the radio last
> >> >> >> night,
> >> >> >> checked the regulator voltages and attached the LCD. The Freq is
> >> >> >> @.000.000 and all I get is white noise through the speaker, no
> >> >> >> difference
> >> >> >> when connected to an antenna. This tell me that the VFO isn't
> >> >> >> running.
> >> >> >> I
> >> >> >> don't have a scope only a volt meter to diagnose with. Right now I
> >> >> >> am
> >> >> >> going through all of the solder joints and checking polarities etc,
> >> >> >> but
> >> >> >> any hints at this point is greately appreciated.
> >> >> >>
> >> >> >> CHarley
> >> >> >> VK2ZYZ
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> >> >> No virus found in this incoming message.
> >> >> Checked by AVG - www.avg.com
> >> >> Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date:
> >> >> 09/18/09
> >> >> 07:49:00

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> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.409 / Virus Database: 270.13.106/2381 - Release Date:
> >> 09/18/09
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> Version: 8.5.409 / Virus Database: 270.13.106/2381 - Release Date: 09/18/09
> 18:14:00
>

1152. Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-20 13:47:07 UTC
From: rameses32
Topic: 1143 Message: 1152

The radio is fixed and working awsome. Problem was the diode on Q20 was backwards, found it by checking transistor voltages. I recieved several signal reports tonight, some as far as 1,000klms away, everyone said my audio was excellent and many were suprised that I was only putting out 5 watts. Actually it punches out 8 watts on a whistle, but I don't recommend that. The final never even got warm on a bit of a rag chew.

Anyway, great kit, and even better radio, I think the Kenwood is going to get pretty dusty for a while because the MKARS 80 will be my main rig for quite some time.

Thanks Guys
Charley Loomis
VK2ZYZ/N0ZYZ
73's

--- In mkars80@..., "rameses32" <rameses32@...> wrote:
>
> No problems at all mate, all I can say is what a Kit! Took me 1 hour to drill and cut the case, 12 hours to solder everything together and fit it to the case and 1 hour trouble shooting and 30 minutes to adjust it. The reciever works great with good selectivity. The audio is very loud and clear, I am quite suprised, it has the best sound I have ever gotten out of a 386. Very stable, minimal drift, comparable to my Kenwood 120S. The whole rig is alot smaller than I was expecting, I didn't relise in the pictures that it uses 1/8 watt resistors, thinking it was 1/4 resistors I thought it would be a bit bigger. All in all, I am blown away by this radio. I'm still trying to make a contact with it. I'm not sure of my output power, it sounds great through my Kenwood sitting next to it but I don't have a power meter to measure output.
>
> I Adjusted R2 from 230mA to 280mA as the manual said but nobody on air has been able to hear me, but everyone I am listening to is more than 500klms away tonight, but I'll keep trying. I'll let ya know when I make my first on air contact.
>
> Charley
> VK2ZYZ
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Sorry I couldn't help you Charley.. I didn't stay up all night!!
> >
> > Steve G6ALU @ UTC +1
> >
> >
> > ----- Original Message -----
> > From: "rameses32" <rameses32@>
> > To: <mkars80@yahoogroups.co.uk>
> > Sent: Saturday, September 19, 2009 2:28 AM
> > Subject: [mkars80] Re: Help wanted, no output from VFO

> >
> >
> > > WooHoo, thanks for the help guys,lol, it was a bad solder joint in L5.
> > >
> > > Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
> > >
> > >
> > > --- In mkars80@..., "rameses32" <rameses32@> wrote:
> > >>
> > >> I'm going over everything right now, but I finished the radio last night,
> > >> checked the regulator voltages and attached the LCD. The Freq is
> > >> @.000.000 and all I get is white noise through the speaker, no difference
> > >> when connected to an antenna. This tell me that the VFO isn't running. I
> > >> don't have a scope only a volt meter to diagnose with. Right now I am
> > >> going through all of the solder joints and checking polarities etc, but
> > >> any hints at this point is greately appreciated.
> > >>
> > >> CHarley
> > >> VK2ZYZ
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> > > Yahoo! Groups Links
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> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date: 09/18/09
> > 07:49:00
> >
>

1153. Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-20 14:48:09 UTC
From: g3oth
Topic: 1143 Message: 1153

Charley, glad to hear that you have got everything fixed and that you are enjoying your new radio. It is a great little rig and a real credit to Steve and his XYL and MKARS members endeavours.
73 es GL es have fun de Charles G3OTH

--- In mkars80@..., "rameses32" <rameses32@...> wrote:
>
> The radio is fixed and working awsome. Problem was the diode on Q20 was backwards, found it by checking transistor voltages. I recieved several signal reports tonight, some as far as 1,000klms away, everyone said my audio was excellent and many were suprised that I was only putting out 5 watts. Actually it punches out 8 watts on a whistle, but I don't recommend that. The final never even got warm on a bit of a rag chew.
>
> Anyway, great kit, and even better radio, I think the Kenwood is going to get pretty dusty for a while because the MKARS 80 will be my main rig for quite some time.
>
> Thanks Guys
> Charley Loomis
> VK2ZYZ/N0ZYZ
> 73's
>
> --- In mkars80@..., "rameses32" <rameses32@> wrote:
> >
> > No problems at all mate, all I can say is what a Kit! Took me 1 hour to drill and cut the case, 12 hours to solder everything together and fit it to the case and 1 hour trouble shooting and 30 minutes to adjust it. The reciever works great with good selectivity. The audio is very loud and clear, I am quite suprised, it has the best sound I have ever gotten out of a 386. Very stable, minimal drift, comparable to my Kenwood 120S. The whole rig is alot smaller than I was expecting, I didn't relise in the pictures that it uses 1/8 watt resistors, thinking it was 1/4 resistors I thought it would be a bit bigger. All in all, I am blown away by this radio. I'm still trying to make a contact with it. I'm not sure of my output power, it sounds great through my Kenwood sitting next to it but I don't have a power meter to measure output.
> >
> > I Adjusted R2 from 230mA to 280mA as the manual said but nobody on air has been able to hear me, but everyone I am listening to is more than 500klms away tonight, but I'll keep trying. I'll let ya know when I make my first on air contact.
> >
> > Charley
> > VK2ZYZ
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > Sorry I couldn't help you Charley.. I didn't stay up all night!!
> > >

> > > Steve G6ALU @ UTC +1
> > >
> > >
> > > ----- Original Message -----
> > > From: "rameses32" <rameses32@>
> > > To: <mkars80@...>
> > > Sent: Saturday, September 19, 2009 2:28 AM
> > > Subject: [mkars80] Re: Help wanted, no output from VFO
> > >
> > >
> > > > WooHoo, thanks for the help guys,lol, it was a bad solder joint in L5.
> > > >
> > > > Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
> > > >
> > > >
> > > > --- In mkars80@..., "rameses32" <rameses32@> wrote:
> > > >>
> > > >> I'm going over everything right now, but I finished the radio last night,
> > > >> checked the regulator voltages and attached the LCD. The Freq is
> > > >> @.000.000 and all I get is white noise through the speaker, no difference
> > > >> when connected to an antenna. This tell me that the VFO isn't running. I
> > > >> don't have a scope only a volt meter to diagnose with. Right now I am
> > > >> going through all of the solder joints and checking polarities etc, but
> > > >> any hints at this point is greately appreciated.
> > > >>
> > > >> CHarley
> > > >> VK2ZYZ
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> > > > Yahoo! Groups Links
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> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - www.avg.com
> > > Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date: 09/18/09
> > > 07:49:00
> > >
> >

>

1154. Re: [mkars80] Re: Help wanted, no output from VFO

Yahoo group: mkars80
Date: 2009-09-20 15:19:37 UTC
From: Steve Drury
Topic: 1143 Message: 1154

Glad its working as it should!

Have fun,
Steve G6ALU

----- Original Message -----
From: "rameses32" <rameses32@...>
To: <mkars80@...>
Sent: Sunday, September 20, 2009 2:47 PM
Subject: [mkars80] Re: Help wanted, no output from VFO

> The radio is fixed and working awsome. Problem was the diode on Q20 was
> backwards, found it by checking transistor voltages. I recieved several
> signal reports tonight, some as far as 1,000klms away, everyone said my
> audio was excellent and many were suprised that I was only putting out 5
> watts. Actually it punches out 8 watts on a whistle, but I don't recommend
> that. The final never even got warm on a bit of a rag chew.
>
> Anyway, great kit, and even better radio, I think the Kenwood is going to
> get pretty dusty for a while because the MKARS 80 will be my main rig for
> quite some time.
>
> Thanks Guys
> Charley Loomis
> VK2ZYZ/N0ZYZ
> 73's
>
> --- In mkars80@..., "rameses32" <rameses32@...> wrote:
>>
>> No problems at all mate, all I can say is what a Kit! Took me 1 hour to
>> drill and cut the case, 12 hours to solder everything together and fit it
>> to the case and 1 hour trouble shooting and 30 minutes to adjust it. The
>> reciever works great with good selectivity. The audio is very loud and
>> clear, I am quite suprised, it has the best sound I have ever gotten out
>> of a 386. Very stable, minimal drift, comparable to my Kenwood 120S. The
>> whole rig is alot smaller than I was expecting, I didn't relise in the
>> pictures that it uses 1/8 watt resistors, thinking it was 1/4 resistors I
>> thought it would be a bit bigger. All in all, I am blown away by this
>> radio. I'm still trying to make a contact with it. I'm not sure of my
>> output power, it sounds great through my Kenwood sitting next to it but I
>> don't have a power meter to measure output.
>>
>> I Adjusted R2 from 230mA to 280mA as the manual said but nobody on air
>> has been able to hear me, but everyone I am listening to is more than
>> 500klms away tonight, but I'll keep trying. I'll let ya know when I make
>> my first on air contact.

>>
>> Charley
>> VK2ZYZ
>>
>> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >
>> > Sorry I couldn't help you Charley.. I didn't stay up all night!!
>> >
>> > Steve G6ALU @ UTC +1
>> >
>> >
>> > ----- Original Message -----
>> > From: "rameses32" <rameses32@>
>> > To: <mkars80@...>
>> > Sent: Saturday, September 19, 2009 2:28 AM
>> > Subject: [mkars80] Re: Help wanted, no output from VFO
>> >
>> >
>> > > WooHoo, thanks for the help guys,lol, it was a bad solder joint in
>> > > L5.
>> > >
>> > > Now I need to bring the freq down it is at 4.253mhz to 3.920mhz.
>> > >
>> > >
>> > > --- In mkars80@..., "rameses32" <rameses32@> wrote:
>> > >>
>> > >> I'm going over everything right now, but I finished the radio last
>> > >> night,
>> > >> checked the regulator voltages and attached the LCD. The Freq is
>> > >> @.000.000 and all I get is white noise through the speaker, no
>> > >> difference
>> > >> when connected to an antenna. This tell me that the VFO isn't
>> > >> running. I
>> > >> don't have a scope only a volt meter to diagnose with. Right now I
>> > >> am
>> > >> going through all of the solder joints and checking polarities etc,
>> > >> but
>> > >> any hints at this point is greately appreciated.
>> > >>
>> > >> CHarley
>> > >> VK2ZYZ
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>> > > Yahoo! Groups Links
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>> > No virus found in this incoming message.
>> > Checked by AVG - www.avg.com
>> > Version: 8.5.409 / Virus Database: 270.13.105/2380 - Release Date:
>> > 09/18/09
>> > 07:49:00
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.108/2383 - Release Date: 09/19/09
17:50:00

1155. Modulation to high in mkars80

Yahoo group: mkars80
Date: 2009-09-23 13:32:28 UTC
From: Nick Brok
Topic: 1155 Message: 1155

Hello Steve and others,

My mkars80 had its first try on 80 meters today and the modulation is a (very) lot to high. The led is already off when I speak with a low voice into the microphone. On the other site they told me the modulation was a lot to loud.
I use a normal electret mike (The ones with the FET pre-amplifier build in.)
Can you suggest me a modification for this?
It picks any sound in the room and it's producing enough modulation for 5 watts output without saying anything!
The room is not that noisy, normal background noise as in any normal room.

Greetings,

Nick Brok, de Pe1GOO
--
Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paj kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"
Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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1156. Re: [mkars80] Modulation to high in mkars80

Yahoo group: mkars80
Date: 2009-09-23 13:41:26 UTC
From: Steve Drury
Topic: 1155 Message: 1156

Nick,

My first suggestion is to try a different microphone just to make sure this isn't the problem - next check for wrong component values, the problem is most likely in the microphone amplifier circuit.

In normal use I speak about 20cm from the microphone.

Do you have an oscilloscope? If so I can give you some levels to measure.

Regards,
Steve G6ALU

----- Original Message -----
From: "Nick Brok" <pe1goo@...>
To: <mkars80@...>
Sent: Wednesday, September 23, 2009 2:32 PM
Subject: [mkars80] Modulation to high in mkars80

Hello Steve and others,

My mkars80 had its first try on 80 meters today and the modulation is a (very) lot to high. The led is already off when I speak with a low voice into the microphone. On the other site they told me the modulation was a lot to loud.
I use a normal electret mike (The ones with the FET pre-amplifier build in.)
Can you suggest me a modification for this?
It picks any sound in the room and it's producing enough modulation for 5 watts output without saying anything!
The room is not that noisy, normal background noise as in any normal room.

Greetings,

Nick Brok, de Pe1GOO
--
Uitspraak van Ma?ra (De drakenmeester): "s?i paji sai dia degom wianon fio paj
kwieimin si anrien est toia s?i si doika!" = "Om je op dat riskante punt uit
je concentratie te halen is vragen om moeilijkheden!"
Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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---

Yahoo! Groups Links

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Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date: 09/23/09
05:52:00

1157. Re: [mkars80] Modulation to high in mkars80

Yahoo group: mkars80
Date: 2009-09-23 14:30:44 UTC
From: Nick Brok
Topic: 1155 Message: 1157

I' ve an Oscilloscope so some values will be helpful.
Wrong components used in circuit? I think not, because everything I checked twice.
I think my electret microphones have a to high gain pre-amp.
I don't know the type, because it are condensator FET-pre-amp mikecapsels.

Greetings,

Nick Brok, de Pe1GOO

--

Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paj

kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit

je concentratie te halen is vragen om moeilijkheden!"

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

--- On Wed, 9/23/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Modulation to high in mkars80
To: mkars80@...
Date: Wednesday, September 23, 2009, 3:41 PM

Nick,

My first suggestion is to try a different microphone just to make sure this

isn't the problem - next check for wrong component values, the problem is

most likely in the microphone amplifier circuit.

In normal use I speak about 20cm from the microphone.

Do you have an oscilloscope? If so I can give you some levels to measure..

Regards,

Steve G6ALU

----- Original Message -----

From: "Nick Brok" <pe1goo@yahoo. com>

To: <mkars80@yahoogroups .co.uk>

Sent: Wednesday, September 23, 2009 2:32 PM

Subject: [mkars80] Modulation to high in mkars80

Hello Steve and others,

My mkars80 had its first try on 80 meters today and the modulation is a (very) lot to high. The led is already off when I speak with a low voice into the microphone. On the other site they told me the modulation was a lot to loud.

I use a normal electret mike (The ones with the FET pre-amplifier build in.)

Can you suggest me a modification for this?

It picks any sound in the room and it's producing enough modulation for 5 watts output without saying anything!

The room is not that noisy, normal background noise as in any normal room.

Greetings,

Nick Brok, de Pe1GOO

--

Uitspraak van Maïra (De drakenmeester) : "sèi paji sai dia degom wianon fio paj

kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit

je concentratie te halen is vragen om moeilijkheden! "

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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[Non-text portions of this message have been removed]

1158. Re: [mkars80] Modulation to high in mkars80

Yahoo group: mkars80
Date: 2009-09-23 14:56:33 UTC
From: Steve Drury
Topic: 1155 Message: 1158

Nick,
When speaking normally into the microphone the waveform at Q4 emitter is 1 - 2V P-P.

To produce an output of 5W from a steady "whistle" requires 700mV at the base of Q21.

I hope this helps?

Regards,
Steve G6ALU

----- Original Message -----
From: "Nick Brok" <pe1goo@...>
To: <mkars80@...>
Sent: Wednesday, September 23, 2009 3:30 PM
Subject: Re: [mkars80] Modulation to high in mkars80

I' ve an Oscilloscope so some values will be helpful.
Wrong components used in circuit? I think not, because everything I checked twice.
I think my electret microphones have a to high gain pre-amp.
I don't know the type, because it are condensator FET-pre-amp mikecapsels.

Greetings,

Nick Brok, de Pe1GOO

--

Uitspraak van Ma?ra (De drakenmeester): "s?i paji sai dia degom wianon fio paj

kwieimin si anrien est toia s?i si doika!" = "Om je op dat riskante punt uit

je concentratie te halen is vragen om moeilijkheden!"

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

--- On Wed, 9/23/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Modulation to high in mkars80
To: mkars80@...
Date: Wednesday, September 23, 2009, 3:41 PM

Nick,

My first suggestion is to try a different microphone just to make sure this isn't the problem - next check for wrong component values, the problem is most likely in the microphone amplifier circuit.

In normal use I speak about 20cm from the microphone.

Do you have an oscilloscope? If so I can give you some levels to measure..

Regards,

Steve G6ALU

----- Original Message -----

From: "Nick Brok" <pe1goo@yahoo. com>

To: <mkars80@yahoogroups .co.uk>

Sent: Wednesday, September 23, 2009 2:32 PM

Subject: [mkars80] Modulation to high in mkars80

Hello Steve and others,

My mkars80 had its first try on 80 meters today and the modulation is a (very) lot to high. The led is already off when I speak with a low voice into the microphone. On the other site they told me the modulation was a lot to loud.

I use a normal electret mike (The ones with the FET pre-amplifier build in.)

Can you suggest me a modification for this?

It picks any sound in the room and it's producing enough modulation for 5 watts output without saying anything!

The room is not that noisy, normal background noise as in any normal room.

Greetings,

Nick Brok, de Pe1GOO

--

Uitspraak van Ma?ra (De drakenmeester) : "s?i paji sai dia degom wianon fio paj

kwieimin si anrien est toia s?i si doika!" = "Om je op dat riskante punt uit

je concentratie te halen is vragen om moeilijkheden! "

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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[Non-text portions of this message have been removed]

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Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date: 09/23/09
05:52:00

1159. Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-23 17:01:04 UTC
From: Adrian Rees (MW1LCR)
Topic: 1155 Message: 1159

Hi all

I have just finished assembling my MKARS80.

I have lost a 1K resistor during the build and R95 is missing. (I'll replace it tomorrow when I go to Maplin's). Co-incidentially I had a spare capacitor, one of the 100nF ones.

I have checked the board twice over, thinking I've put a resistor where a capacitor should be, but can't spot it. Anyway, powered it up and all OK, to the point I set the band up. The display is reading 4.018MHz to 4.411MHz. My guess is that L5 has been wound incorrectly.

I'll replace r95 tomorrow, but is the opinion that L5 is in correctly wound the right way to go ?

Certainly receiving stuff on the receiver. Brilliant kit, and I've really enjoyed building it last night and this afternoon.

73

Adrian MW1LCR

1160. Re: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-23 17:11:07 UTC
From: Steve Drury
Topic: 1155 Message: 1160

HI Adrian,
I can pop a resistor in the post if you like... let me know.

You need 51 x 100nF capacitors but Val puts 52 in the bag just in case one of us loses one, sorry if its confusing but at least you checked your board!

Showing around 4MHz doesn't sound unreasonable if you haven't set it up yet - adjust the orange trimmer capacitor for a coverage of 3.5 to 3.8MHz - if you have tried to adjust it then the VFO is running high in frequency so check to make sure there are enough turns on L5.

Regards,
Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Wednesday, September 23, 2009 6:01 PM
Subject: [mkars80] Hello all High in Freq

> Hi all
>
> I have just finished assembling my MKARS80.
>
> I have lost a 1K resistor during the build and R95 is missing. (I'll
> replace
> it tomorrow when I go to Maplin's). Co-incidentially I had a spare
> capacitor, one of the 100nF ones.
>
> I have checked the board twice over, thinking I've put a resistor where a
> capacitor should be, but can't spot it. Anyway, powered it up and all OK,
> to
> the point I set the band up. The display is reading 4.018MHz to 4.411MHz.
> My
> guess is that L5 has been wound incorrectly.
>
> I'll replace r95 tomorrow, but is the opinion that L5 is in correctly
> wound
> the right way to go ?
>
> Certainly receiving stuff on the receiver. Brilliant kit, and I've really
> enjoyed building it last night and this afternoon.
>
> 73
>
> Adrian MW1LCR

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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date: 09/23/09
05:52:00

1161. RE: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-23 21:19:06 UTC
From: Adrian Rees (MW1LCR)
Topic: 1155 Message: 1161

Hi Steve

No worries on the resistor, as I am off to town tomorrow anyway.

I have re-wound L5, as I used the wrong wire.....D'Uh!

Its now in band 3.4MHz - to about 4MHz.

I'll wait until I have the resistor to finish off the alignment etc.

Thanks

Adrian MW1LCR

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 23 September 2009 18:11
To: mkars80@...
Subject: Re: [mkars80] Hello all High in Freq

HI Adrian,
I can pop a resistor in the post if you like... let me know.

You need 51 x 100nF capacitors but Val puts 52 in the bag just in case one
of us loses one, sorry if its confusing but at least you checked your board!

Showing around 4MHz doesn't sound unreasonable if you haven't set it up
yet - adjust the orange trimmer capacitor for a coverage of 3.5 to 3.8MHz -
if you have tried to adjust it then the VFO is running high in frequency so
check to make sure there are enough turns on L5.

Regards,
Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Wednesday, September 23, 2009 6:01 PM
Subject: [mkars80] Hello all High in Freq

> Hi all
>
> I have just finished assembling my MKARS80.
>
> I have lost a 1K resistor during the build and R95 is missing. (I'll
> replace
> it tomorrow when I go to Maplin's). Co-incidentially I had a spare

> capacitor, one of the 100nF ones.
>
> I have checked the board twice over, thinking I've put a resistor
> where a capacitor should be, but can't spot it. Anyway, powered it up
> and all OK, to the point I set the band up. The display is reading
> 4.018MHz to 4.411MHz. My
> guess is that L5 has been wound incorrectly.
>
> I'll replace r95 tomorrow, but is the opinion that L5 is in correctly
> wound
> the right way to go ?
>
> Certainly receiving stuff on the receiver. Brilliant kit, and I've
> really enjoyed building it last night and this afternoon.
>
> 73
>
> Adrian MW1LCR
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date: 09/23/09
05:52:00

Yahoo! Groups Links

1162. Re: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-24 06:43:16 UTC
From: Steve Drury
Topic: 1155 Message: 1162

Adrian,

Good to hear its now on frequency.

I will put you a couple of 1K resistors in the post as its unlikely Maplins
will have the correct size.

Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Wednesday, September 23, 2009 10:19 PM
Subject: RE: [mkars80] Hello all High in Freq

> Hi Steve
>
> No worries on the resistor, as I am off to town tomorrow anyway.
>
> I have re-wound L5, as I used the wrong wire.....D'Uh!
>
> Its now in band 3.4MHz - to about 4MHz.
>
> I'll wait until I have the resistor to finish off the alignment etc.
>
> Thanks
>
> Adrian MW1LCR
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 23 September 2009 18:11
> To: mkars80@...
> Subject: Re: [mkars80] Hello all High in Freq
>
>
> HI Adrian,
> I can pop a resistor in the post if you like... let me know.
>
> You need 51 x 100nF capacitors but Val puts 52 in the bag just in case one
> of us loses one, sorry if its confusing but at least you checked your
> board!
>
> Showing around 4MHz doesn't sound unreasonable if you haven't set it up

> yet - adjust the orange trimmer capacitor for a coverage of 3.5 to
> 3.8MHz -
> if you have tried to adjust it then the VFO is running high in frequency
> so
> check to make sure there are enough turns on L5.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> To: <mkars80@...>
> Sent: Wednesday, September 23, 2009 6:01 PM
> Subject: [mkars80] Hello all High in Freq
>
>
>> Hi all
>>
>> I have just finished assembling my MKARS80.
>>
>> I have lost a 1K resistor during the build and R95 is missing. (I'll
>> replace
>> it tomorrow when I go to Maplin's). Co-incidentially I had a spare
>> capacitor, one of the 100nF ones.
>>
>> I have checked the board twice over, thinking I've put a resistor
>> where a capacitor should be, but can't spot it. Anyway, powered it up
>> and all OK, to the point I set the band up. The display is reading
>> 4.018MHz to 4.411MHz. My
>> guess is that L5 has been wound incorrectly.
>>
>> I'll replace r95 tomorrow, but is the opinion that L5 is in correctly
>> wound
>> the right way to go ?
>>
>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
>> really enjoyed building it last night and this afternoon.
>>
>> 73
>>
>> Adrian MW1LCR
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> No virus found in this incoming message.
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05:52:00

1163. RE: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-24 16:17:31 UTC
From: Adrian Rees (MW1LCR)
Topic: 1155 Message: 1163

Hello

I managed to get a 1K Resistor so no worries.

Well my MKARS is on Freq and working well on RX.

On TX, I have a standing current of 110mA and that goes to 170mA on TX.

However no TX'd Freq, and the Red LED doesn't extinguish (or dim) on voice peaks.

Using my 756ProII I can't hear any crackles or pops when I TX, even on the same Freq as the MKARS.

I'll check the PC Board later tonight for dry joints etc, as I found one testing the RX.

Any hints & tips ?

Thanks

Adrian MW1LCR

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 24 September 2009 07:43
To: mkars80@...
Subject: Re: [mkars80] Hello all High in Freq

Adrian,

Good to hear its now on frequency.

I will put you a couple of 1K resistors in the post as its unlikely Maplins will have the correct size.

Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Wednesday, September 23, 2009 10:19 PM
Subject: RE: [mkars80] Hello all High in Freq

> Hi Steve
>
> No worries on the resistor, as I am off to town tomorrow anyway.
>

> I have re-wound L5, as I used the wrong wire.....D'Uh!
>
> Its now in band 3.4MHz - to about 4MHz.
>
> I'll wait until I have the resistor to finish off the alignment etc.
>
> Thanks
>
> Adrian MW1LCR
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 23 September 2009 18:11
> To: mkars80@...
> Subject: Re: [mkars80] Hello all High in Freq
>
>
> HI Adrian,
> I can pop a resistor in the post if you like... let me know.
>
> You need 51 x 100nF capacitors but Val puts 52 in the bag just in case
> one of us loses one, sorry if its confusing but at least you checked
> your board!
>
> Showing around 4MHz doesn't sound unreasonable if you haven't set it
> up yet - adjust the orange trimmer capacitor for a coverage of 3.5 to
> 3.8MHz - if you have tried to adjust it then the VFO is running high
> in frequency so
> check to make sure there are enough turns on L5.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@btconnect.com>
> To: <mkars80@...>
> Sent: Wednesday, September 23, 2009 6:01 PM
> Subject: [mkars80] Hello all High in Freq
>
>
>> Hi all
>>
>> I have just finished assembling my MKARS80.
>>
>> I have lost a 1K resistor during the build and R95 is missing. (I'll
>> replace it tomorrow when I go to Maplin's). Co-incidentially I had a
>> spare capacitor, one of the 100nF ones.
>>

>> I have checked the board twice over, thinking I've put a resistor
>> where a capacitor should be, but can't spot it. Anyway, powered it up
>> and all OK, to the point I set the band up. The display is reading
>> 4.018MHz to 4.411MHz. My guess is that L5 has been wound incorrectly.
>>
>> I'll replace r95 tomorrow, but is the opinion that L5 is in correctly
>> wound the right way to go ?
>>
>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
>> really enjoyed building it last night and this afternoon.
>>
>> 73
>>
>> Adrian MW1LCR
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date:
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> Yahoo! Groups Links

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No virus found in this incoming message.
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Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date: 09/23/09
05:52:00

Yahoo! Groups Links

1164. Re: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-24 16:43:46 UTC
From: Steve Drury
Topic: 1155 Message: 1164

Adrian,

On TX the quiescent current is normally about 270mA before the output transistor bias is set so you have a problem. Check to see if Q5 is geting very warm / hot, it should do!

Even so you should be able to hear yourself on another receiver.

Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Thursday, September 24, 2009 5:17 PM
Subject: RE: [mkars80] Hello all High in Freq

> Hello
>
> I managed to get a 1K Resistor so no worries.
>
> Well my MKARS is on Freq and working well on RX.
>
> On TX, I have a standing current of 110mA and that goes to 170mA on TX.
>
> However no TX'd Freq, and the Red LED doesn't extinguish (or dim) on voice
> peaks.
>
> Using my 756ProII I can't hear any crackles or pops when I TX, even on the
> same Freq as the MKARS.
>
> I'll check the PC Board later tonight for dry joints etc, as I found one
> testing the RX.
>
> Any hints & tips ?
>
> Thanks
>
> Adrian MW1LCR
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 24 September 2009 07:43
> To: mkars80@...
> Subject: Re: [mkars80] Hello all High in Freq

>
>
> Adrian,
>
> Good to hear its now on frequency.
>
> I will put you a couple of 1K resistors in the post as its unlikely
> Maplins
> will have the correct size.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> To: <mkars80@...>
> Sent: Wednesday, September 23, 2009 10:19 PM
> Subject: RE: [mkars80] Hello all High in Freq
>
>
>> Hi Steve
>>
>> No worries on the resistor, as I am off to town tomorrow anyway.
>>
>> I have re-wound L5, as I used the wrong wire.....D'Uh!
>>
>> Its now in band 3.4MHz - to about 4MHz.
>>
>> I'll wait until I have the resistor to finish off the alignment etc.
>>
>> Thanks
>>
>> Adrian MW1LCR
>>
>> -----Original Message-----
>> From: mkars80@... [mailto:mkars80@...] On
>> Behalf
>> Of Steve Drury
>> Sent: 23 September 2009 18:11
>> To: mkars80@...
>> Subject: Re: [mkars80] Hello all High in Freq
>>
>>
>> HI Adrian,
>> I can pop a resistor in the post if you like... let me know.
>>
>> You need 51 x 100nF capacitors but Val puts 52 in the bag just in case
>> one of us loses one, sorry if its confusing but at least you checked
>> your board!
>>
>> Showing around 4MHz doesn't sound unreasonable if you haven't set it

>> up yet - adjust the orange trimmer capacitor for a coverage of 3.5 to
>> 3.8MHz - if you have tried to adjust it then the VFO is running high
>> in frequency so
>> check to make sure there are enough turns on L5.
>>
>> Regards,
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>> To: <mkars80@...>
>> Sent: Wednesday, September 23, 2009 6:01 PM
>> Subject: [mkars80] Hello all High in Freq
>>
>>
>>> Hi all
>>>
>>> I have just finished assembling my MKARS80.
>>>
>>> I have lost a 1K resistor during the build and R95 is missing. (I'll
>>> replace it tomorrow when I go to Maplin's). Co-incidentially I had a
>>> spare capacitor, one of the 100nF ones.
>>>
>>> I have checked the board twice over, thinking I've put a resistor
>>> where a capacitor should be, but can't spot it. Anyway, powered it up
>>> and all OK, to the point I set the band up. The display is reading
>>> 4.018MHz to 4.411MHz. My guess is that L5 has been wound incorrectly.
>>>
>>> I'll replace r95 tomorrow, but is the opinion that L5 is in correctly
>>> wound the right way to go ?
>>>
>>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
>>> really enjoyed building it last night and this afternoon.
>>>
>>> 73
>>>
>>> Adrian MW1LCR
>>>
>>>
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>>> ------------------------------------
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>>> Yahoo! Groups Links
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>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date:
>> 09/23/09
>> 05:52:00
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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> Yahoo! Groups Links
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>

1165. RE: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-24 17:18:41 UTC
From: Adrian Rees (MW1LCR)
Topic: 1155 Message: 1165

Hi Steve

Q5 is stone cold. Even switching to TX (the relay changes over and the current consumption increases) but nothing else.

I'll check for dry joints etc later.

Adrian

-----Original Message-----
From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 24 September 2009 17:44
To: mkars80@...
Subject: Re: [mkars80] Hello all High in Freq

Adrian,

On TX the quiescent current is normally about 270mA before the output transistor bias is set so you have a problem. Check to see if Q5 is geting very warm / hot, it should do!

Even so you should be able to hear yourself on another receiver.

Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@btconnect.com>
To: <mkars80@...>
Sent: Thursday, September 24, 2009 5:17 PM
Subject: RE: [mkars80] Hello all High in Freq

> Hello
>
> I managed to get a 1K Resistor so no worries.
>
> Well my MKARS is on Freq and working well on RX.
>
> On TX, I have a standing current of 110mA and that goes to 170mA on
> TX.
>
> However no TX'd Freq, and the Red LED doesn't extinguish (or dim) on
> voice peaks.
>
> Using my 756ProII I can't hear any crackles or pops when I TX, even on
> the same Freq as the MKARS.
>

> I'll check the PC Board later tonight for dry joints etc, as I found
> one testing the RX.
>
> Any hints & tips ?
>
> Thanks
>
> Adrian MW1LCR
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On
> Behalf
> Of Steve Drury
> Sent: 24 September 2009 07:43
> To: mkars80@...
> Subject: Re: [mkars80] Hello all High in Freq
>
>
> Adrian,
>
> Good to hear its now on frequency.
>
> I will put you a couple of 1K resistors in the post as its unlikely
> Maplins
> will have the correct size.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> To: <mkars80@....uk>
> Sent: Wednesday, September 23, 2009 10:19 PM
> Subject: RE: [mkars80] Hello all High in Freq
>
>
>> Hi Steve
>>
>> No worries on the resistor, as I am off to town tomorrow anyway.
>>
>> I have re-wound L5, as I used the wrong wire.....D'Uh!
>>
>> Its now in band 3.4MHz - to about 4MHz.
>>
>> I'll wait until I have the resistor to finish off the alignment etc.
>>
>> Thanks
>>
>> Adrian MW1LCR
>>
>> -----Original Message-----

>> From: mkars80@... [mailto:mkars80@...] On
>> Behalf Of Steve Drury
>> Sent: 23 September 2009 18:11
>> To: mkars80@...
>> Subject: Re: [mkars80] Hello all High in Freq
>>
>>
>> HI Adrian,
>> I can pop a resistor in the post if you like... let me know.
>>
>> You need 51 x 100nF capacitors but Val puts 52 in the bag just in
>> case one of us loses one, sorry if its confusing but at least you
>> checked your board!
>>
>> Showing around 4MHz doesn't sound unreasonable if you haven't set it
>> up yet - adjust the orange trimmer capacitor for a coverage of 3.5 to
>> 3.8MHz - if you have tried to adjust it then the VFO is running high
>> in frequency so check to make sure there are enough turns on L5.
>>
>> Regards,
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>> To: <mkars80@...>
>> Sent: Wednesday, September 23, 2009 6:01 PM
>> Subject: [mkars80] Hello all High in Freq
>>
>>
>>> Hi all
>>>
>>> I have just finished assembling my MKARS80.
>>>
>>> I have lost a 1K resistor during the build and R95 is missing. (I'll
>>> replace it tomorrow when I go to Maplin's). Co-incidentially I had a
>>> spare capacitor, one of the 100nF ones.
>>>
>>> I have checked the board twice over, thinking I've put a resistor
>>> where a capacitor should be, but can't spot it. Anyway, powered it
>>> up and all OK, to the point I set the band up. The display is
>>> reading 4.018MHz to 4.411MHz. My guess is that L5 has been wound
>>> incorrectly.
>>>
>>> I'll replace r95 tomorrow, but is the opinion that L5 is in
>>> correctly wound the right way to go ?
>>>
>>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
>>> really enjoyed building it last night and this afternoon.
>>>
>>> 73

>>>
>>> Adrian MW1LCR
>>>
>>>
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>>> ------------------------------------
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>>> Yahoo! Groups Links
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> Yahoo! Groups Links
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>
> Yahoo! Groups Links
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Yahoo! Groups Links

1166. Re: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-24 18:03:08 UTC
From: Steve Drury
Topic: 1155 Message: 1166

Check voltages on it and also make sure its the right way round!

Steve

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Thursday, September 24, 2009 6:18 PM
Subject: RE: [mkars80] Hello all High in Freq

> Hi Steve
>
> Q5 is stone cold. Even switching to TX (the relay changes over and the
> current consumption increases) but nothing else.
>
> I'll check for dry joints etc later.
>
> Adrian
>
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 24 September 2009 17:44
> To: mkars80@...
> Subject: Re: [mkars80] Hello all High in Freq
>
>
> Adrian,
>
> On TX the quiescent current is normally about 270mA before the output
> transistor bias is set so you have a problem. Check to see if Q5 is geting
> very warm / hot, it should do!
>
> Even so you should be able to hear yourself on another receiver.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> To: <mkars80@...>
> Sent: Thursday, September 24, 2009 5:17 PM
> Subject: RE: [mkars80] Hello all High in Freq
>
>

>> Hello
>>
>> I managed to get a 1K Resistor so no worries.
>>
>> Well my MKARS is on Freq and working well on RX.
>>
>> On TX, I have a standing current of 110mA and that goes to 170mA on
>> TX.
>>
>> However no TX'd Freq, and the Red LED doesn't extinguish (or dim) on
>> voice peaks.
>>
>> Using my 756ProII I can't hear any crackles or pops when I TX, even on
>> the same Freq as the MKARS.
>>
>> I'll check the PC Board later tonight for dry joints etc, as I found
>> one testing the RX.
>>
>> Any hints & tips ?
>>
>> Thanks
>>
>> Adrian MW1LCR
>>
>> -----Original Message-----
>> From: mkars80@... [mailto:mkars80@...] On
>> Behalf
>> Of Steve Drury
>> Sent: 24 September 2009 07:43
>> To: mkars80@...
>> Subject: Re: [mkars80] Hello all High in Freq
>>
>>
>> Adrian,
>>
>> Good to hear its now on frequency.
>>
>> I will put you a couple of 1K resistors in the post as its unlikely
>> Maplins
>> will have the correct size.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>> To: <mkars80@...>
>> Sent: Wednesday, September 23, 2009 10:19 PM
>> Subject: RE: [mkars80] Hello all High in Freq
>>
>>

>>> Hi Steve
>>>
>>> No worries on the resistor, as I am off to town tomorrow anyway.
>>>
>>> I have re-wound L5, as I used the wrong wire.....D'Uh!
>>>
>>> Its now in band 3.4MHz - to about 4MHz.
>>>
>>> I'll wait until I have the resistor to finish off the alignment etc.
>>>
>>> Thanks
>>>
>>> Adrian MW1LCR
>>>
>>> -----Original Message-----
>>> From: mkars80@... [mailto:mkars80@...] On
>>> Behalf Of Steve Drury
>>> Sent: 23 September 2009 18:11
>>> To: mkars80@...
>>> Subject: Re: [mkars80] Hello all High in Freq
>>>
>>>
>>> HI Adrian,
>>> I can pop a resistor in the post if you like... let me know.
>>>
>>> You need 51 x 100nF capacitors but Val puts 52 in the bag just in
>>> case one of us loses one, sorry if its confusing but at least you
>>> checked your board!
>>>
>>> Showing around 4MHz doesn't sound unreasonable if you haven't set it
>>> up yet - adjust the orange trimmer capacitor for a coverage of 3.5 to
>>> 3.8MHz - if you have tried to adjust it then the VFO is running high
>>> in frequency so check to make sure there are enough turns on L5.
>>>
>>> Regards,
>>> Steve G6ALU
>>>
>>> ----- Original Message -----
>>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>>> To: <mkars80@...>
>>> Sent: Wednesday, September 23, 2009 6:01 PM
>>> Subject: [mkars80] Hello all High in Freq
>>>
>>>
>>>> Hi all
>>>>
>>>> I have just finished assembling my MKARS80.
>>>>
>>>> I have lost a 1K resistor during the build and R95 is missing. (I'll
>>>> replace it tomorrow when I go to Maplin's). Co-incidentially I had a

>>>> spare capacitor, one of the 100nF ones.
>>>>
>>>> I have checked the board twice over, thinking I've put a resistor
>>>> where a capacitor should be, but can't spot it. Anyway, powered it
>>>> up and all OK, to the point I set the band up. The display is
>>>> reading 4.018MHz to 4.411MHz. My guess is that L5 has been wound
>>>> incorrectly.
>>>>
>>>> I'll replace r95 tomorrow, but is the opinion that L5 is in
>>>> correctly wound the right way to go ?
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>>>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
>>>> really enjoyed building it last night and this afternoon.
>>>>
>>>> 73
>>>>
>>>> Adrian MW1LCR
>>>>
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>>>> Yahoo! Groups Links
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>>> Yahoo! Groups Links
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> Yahoo! Groups Links
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> Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2392 - Release Date: 09/24/09
05:52:00

1167. NO SMOKE !

Yahoo group: mkars80
Date: 2009-09-24 18:12:51 UTC
From: Hasse
Topic: 1167 Message: 1167

Good evening !
Finished my MKARS80 last night (very late)and did the final meserment and the result was good i thougt.Put the 13.8 V-DC to the PCB and there was no smoke or flames.Even better i thougt.The RX came very nicely and
so did the TX too.I an half on hour i worked DL - ON - G -Ha and
a DL-OZ.The output is just ab. 6W and i think the RX is absolutly OK
for this wonderful little QRP-station.Now it`s time to put it in to the
cabinet.Thanks for a fantastic 80m QRP-kit.
best 73 de SM6MPA/Hans-Göran

1168. oops sil socket 10 way

Yahoo group: mkars80
Date: 2009-09-24 20:32:42 UTC
From: Phil Archer
Topic: 1168 Message: 1168

Hi Steve

I have been building my MKARS 80 very slowly, concentration problems after a stroke, and have come a cropper with the 10 way sil

I lost concentration and broke it 7 - 3 when I tried to cut of the 1 it flirted off and landed I know not where. As if that wasn't bad enough I fitted the six way on the component side!! I had to cut it to pieces and unsolder it pin by pin then cleaned the holes with a solder sucker.

Where can I get a replacement 10 way SIL

thanks

Phil G6AKK

1169. Re: [mkars80] oops sil socket 10 way

Yahoo group: mkars80
Date: 2009-09-24 20:41:31 UTC
From: Steve Drury
Topic: 1168 Message: 1169

No problem Phil I will get a replacement in the post to you - you did the right thing by removing each pin separately as it saves damage to the board.

Please send me your postal address to g6alu@... and I will get a strip in the post to you straight away.

Steve G6ALU

----- Original Message -----
From: "Phil Archer" <PhilG6akk@...>
To: <mkars80@...>
Sent: Thursday, September 24, 2009 9:32 PM
Subject: [mkars80] oops sil socket 10 way

> Hi Steve
>
> I have been building my MKARS 80 very slowly, concentration problems after
> a stroke, and have come a cropper with the 10 way sil
>
> I lost concentration and broke it 7 - 3 when I tried to cut of the 1 it
> flirted off and landed I know not where. As if that wasn't bad enough I
> fitted the six way on the component side!! I had to cut it to pieces and
> unsolder it pin by pin then cleaned the holes with a solder sucker.
>
> Where can I get a replacement 10 way SIL
>
> thanks
>
> Phil G6AKK
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2392 - Release Date: 09/24/09 05:52:00

1170. My little MKARS-80 is generating a bit of interest on air

Yahoo group: mkars80
Date: 2009-09-24 21:57:12 UTC
From: rameses32
Topic: 1170 Message: 1170

I have been asked many times about information concerning the kit for this little rig. They hear me on air talking about it and end up wanting one themselves. The whole reason I got into Amateure radio was to use equipment I built myself and the MKARS-80 fits my idea of Amateur radio perfectly.

The other night I was having a rag chew with someone using a K2 and I heard a station on a nearby frequency, and it was getting difficult to hear the station I was talking to, just when I had chalked it up to the MKARS-80 not having a very selective front end, the station I was talking to ask me to wait a second while he switched in a filter because he was getting blasted by someone on a close frequency. Well that made me feel good because someone with a $1900 radio was having the same problem I was having on my $120 radio, ok sure he just switched in a filter and eliminated the problem, but he paid more than $120 for that ability.

As far as transmit goes, most contacts can't believe I am only using 5 watts, it reminds people that you don't need 100 watts or more all the time. Or an expencive antenna and tuner. My antenna consists of a 6 metre pole up the side of my house with a full length 1/4 wave 80m dipole made of scrap wire and a piece of PVC pipe for an insulator. It's fed with coax. My tuner is a couple of Air Gap Caps and two large coils wound on some perspex stuffed into an old computer case and an SWR pulled out of the rubbish and repaired.

Charley

1171. RE: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-25 12:12:43 UTC
From: Adrian Rees (MW1LCR)
Topic: 1155 Message: 1171

Hi all

I found a dry joint that seems to have cured some of the problems. The current consumption on RX is 120mA and on TX 290mA (it was about 235mA before I adjusted R2).

The output transistor (Q1) is now getting warm on TX. However, still no sign of RF coming out of it. I'll re-check the joints again I can confirm Q5 is he right way around !

Adrian

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 24 September 2009 19:03
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] Hello all High in Freq

Check voltages on it and also make sure its the right way round!

Steve

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Thursday, September 24, 2009 6:18 PM
Subject: RE: [mkars80] Hello all High in Freq

> Hi Steve
>
> Q5 is stone cold. Even switching to TX (the relay changes over and the
> current consumption increases) but nothing else.
>
> I'll check for dry joints etc later.
>
> Adrian
>
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> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 24 September 2009 17:44
> To: mkars80@...
> Subject: Re: [mkars80] Hello all High in Freq
>

>
> Adrian,
>
> On TX the quiescent current is normally about 270mA before the output
> transistor bias is set so you have a problem. Check to see if Q5 is
> geting very warm / hot, it should do!
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> Even so you should be able to hear yourself on another receiver.
>
> Steve G6ALU
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> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> To: <mkars80@...>
> Sent: Thursday, September 24, 2009 5:17 PM
> Subject: RE: [mkars80] Hello all High in Freq
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>
>> Hello
>>
>> I managed to get a 1K Resistor so no worries.
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>> Well my MKARS is on Freq and working well on RX.
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>> On TX, I have a standing current of 110mA and that goes to 170mA on
>> TX.
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>> However no TX'd Freq, and the Red LED doesn't extinguish (or dim) on
>> voice peaks.
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>> Using my 756ProII I can't hear any crackles or pops when I TX, even
>> on the same Freq as the MKARS.
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>> I'll check the PC Board later tonight for dry joints etc, as I found
>> one testing the RX.
>>
>> Any hints & tips ?
>>
>> Thanks
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>> Adrian MW1LCR
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>> -----Original Message-----
>> From: mkars80@... [mailto:mkars80@...] On
>> Behalf Of Steve Drury
>> Sent: 24 September 2009 07:43
>> To: mkars80@....uk
>> Subject: Re: [mkars80] Hello all High in Freq
>>
>>

>> Adrian,
>>
>> Good to hear its now on frequency.
>>
>> I will put you a couple of 1K resistors in the post as its unlikely
>> Maplins will have the correct size.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>> To: <mkars80@...>
>> Sent: Wednesday, September 23, 2009 10:19 PM
>> Subject: RE: [mkars80] Hello all High in Freq
>>
>>
>>> Hi Steve
>>>
>>> No worries on the resistor, as I am off to town tomorrow anyway.
>>>
>>> I have re-wound L5, as I used the wrong wire.....D'Uh!
>>>
>>> Its now in band 3.4MHz - to about 4MHz.
>>>
>>> I'll wait until I have the resistor to finish off the alignment etc.
>>>
>>> Thanks
>>>
>>> Adrian MW1LCR
>>>
>>> -----Original Message-----
>>> From: mkars80@... [mailto:mkars80@...]
>>> On Behalf Of Steve Drury
>>> Sent: 23 September 2009 18:11
>>> To: mkars80@yahoogroups.co.uk
>>> Subject: Re: [mkars80] Hello all High in Freq
>>>
>>>
>>> HI Adrian,
>>> I can pop a resistor in the post if you like... let me know.
>>>
>>> You need 51 x 100nF capacitors but Val puts 52 in the bag just in
>>> case one of us loses one, sorry if its confusing but at least you
>>> checked your board!
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>>> Showing around 4MHz doesn't sound unreasonable if you haven't set it
>>> up yet - adjust the orange trimmer capacitor for a coverage of 3.5
>>> to 3.8MHz - if you have tried to adjust it then the VFO is running
>>> high in frequency so check to make sure there are enough turns on
>>> L5.

>>>
>>> Regards,
>>> Steve G6ALU
>>>
>>> ----- Original Message -----
>>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>>> To: <mkars80@...>
>>> Sent: Wednesday, September 23, 2009 6:01 PM
>>> Subject: [mkars80] Hello all High in Freq
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>>>> Hi all
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>>>> I have just finished assembling my MKARS80.
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>>>> I have lost a 1K resistor during the build and R95 is missing.
>>>> (I'll replace it tomorrow when I go to Maplin's). Co-incidentially
>>>> I had a spare capacitor, one of the 100nF ones.
>>>>
>>>> I have checked the board twice over, thinking I've put a resistor
>>>> where a capacitor should be, but can't spot it. Anyway, powered it
>>>> up and all OK, to the point I set the band up. The display is
>>>> reading 4.018MHz to 4.411MHz. My guess is that L5 has been wound
>>>> incorrectly.
>>>>
>>>> I'll replace r95 tomorrow, but is the opinion that L5 is in
>>>> correctly wound the right way to go ?
>>>>
>>>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
>>>> really enjoyed building it last night and this afternoon.
>>>>
>>>> 73
>>>>
>>>> Adrian MW1LCR
>>>>
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>>>> Yahoo! Groups Links
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>>> No virus found in this incoming message.
>>> Checked by AVG - www.avg.com
>>> Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date:
>>> 09/23/09 05:52:00
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>> 09/23/09 05:52:00
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2392 - Release Date: 09/24/09
05:52:00

Yahoo! Groups Links

1172. Re: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-25 13:52:32 UTC
From: Steve Drury
Topic: 1155 Message: 1172

Does the current go up when you whistle into the microphone?

Best first step is to check the voltage on all transistors before going
further.

Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Friday, September 25, 2009 1:12 PM
Subject: RE: [mkars80] Hello all High in Freq

> Hi all
>
> I found a dry joint that seems to have cured some of the problems. The
> current consumption on RX is 120mA and on TX 290mA (it was about 235mA
> before I adjusted R2).
>
> The output transistor (Q1) is now getting warm on TX. However, still no
> sign
> of RF coming out of it. I'll re-check the joints again I can confirm Q5 is
> he right way around !
>
> Adrian
>
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 24 September 2009 19:03
> To: mkars80@...
> Subject: Re: [mkars80] Hello all High in Freq
>
>
> Check voltages on it and also make sure its the right way round!
>
> Steve
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> To: <mkars80@...>
> Sent: Thursday, September 24, 2009 6:18 PM
> Subject: RE: [mkars80] Hello all High in Freq
>

>
>> Hi Steve
>>
>> Q5 is stone cold. Even switching to TX (the relay changes over and the
>> current consumption increases) but nothing else.
>>
>> I'll check for dry joints etc later.
>>
>> Adrian
>>
>>
>> -----Original Message-----
>> From: mkars80@... [mailto:mkars80@...] On
>> Behalf
>> Of Steve Drury
>> Sent: 24 September 2009 17:44
>> To: mkars80@...
>> Subject: Re: [mkars80] Hello all High in Freq
>>
>>
>> Adrian,
>>
>> On TX the quiescent current is normally about 270mA before the output
>> transistor bias is set so you have a problem. Check to see if Q5 is
>> geting very warm / hot, it should do!
>>
>> Even so you should be able to hear yourself on another receiver.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>> To: <mkars80@...>
>> Sent: Thursday, September 24, 2009 5:17 PM
>> Subject: RE: [mkars80] Hello all High in Freq
>>
>>
>>> Hello
>>>
>>> I managed to get a 1K Resistor so no worries.
>>>
>>> Well my MKARS is on Freq and working well on RX.
>>>
>>> On TX, I have a standing current of 110mA and that goes to 170mA on
>>> TX.
>>>
>>> However no TX'd Freq, and the Red LED doesn't extinguish (or dim) on
>>> voice peaks.
>>>
>>> Using my 756ProII I can't hear any crackles or pops when I TX, even

>>> on the same Freq as the MKARS.
>>>
>>> I'll check the PC Board later tonight for dry joints etc, as I found
>>> one testing the RX.
>>>
>>> Any hints & tips ?
>>>
>>> Thanks
>>>
>>> Adrian MW1LCR
>>>
>>> -----Original Message-----
>>> From: mkars80@... [mailto:mkars80@...] On
>>> Behalf Of Steve Drury
>>> Sent: 24 September 2009 07:43
>>> To: mkars80@...
>>> Subject: Re: [mkars80] Hello all High in Freq
>>>
>>>
>>> Adrian,
>>>
>>> Good to hear its now on frequency.
>>>
>>> I will put you a couple of 1K resistors in the post as its unlikely
>>> Maplins will have the correct size.
>>>
>>> Steve G6ALU
>>>
>>> ----- Original Message -----
>>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>>> To: <mkars80@...>
>>> Sent: Wednesday, September 23, 2009 10:19 PM
>>> Subject: RE: [mkars80] Hello all High in Freq
>>>
>>>
>>>>>> Hi Steve
>>>>
>>>>>> No worries on the resistor, as I am off to town tomorrow anyway.
>>>>
>>>>>> I have re-wound L5, as I used the wrong wire.....D'Uh!
>>>>
>>>>>> Its now in band 3.4MHz - to about 4MHz.
>>>>
>>>>>> I'll wait until I have the resistor to finish off the alignment etc.
>>>>
>>>>>> Thanks
>>>>
>>>>>> Adrian MW1LCR
>>>>
>>>>>> -----Original Message-----

>>>> From: mkars80@... [mailto:mkars80@...]
>>>> On Behalf Of Steve Drury
>>>> Sent: 23 September 2009 18:11
>>>> To: mkars80@...
>>>> Subject: Re: [mkars80] Hello all High in Freq
>>>>
>>>>
>>>> HI Adrian,
>>>> I can pop a resistor in the post if you like... let me know.
>>>>
>>>> You need 51 x 100nF capacitors but Val puts 52 in the bag just in
>>>> case one of us loses one, sorry if its confusing but at least you
>>>> checked your board!
>>>>
>>>> Showing around 4MHz doesn't sound unreasonable if you haven't set it
>>>> up yet - adjust the orange trimmer capacitor for a coverage of 3.5
>>>> to 3.8MHz - if you have tried to adjust it then the VFO is running
>>>> high in frequency so check to make sure there are enough turns on
>>>> L5.
>>>>
>>>> Regards,
>>>> Steve G6ALU
>>>>
>>>> ----- Original Message -----
>>>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>>>> To: <mkars80@...>
>>>> Sent: Wednesday, September 23, 2009 6:01 PM
>>>> Subject: [mkars80] Hello all High in Freq
>>>>
>>>>
>>>>> Hi all
>>>>>
>>>>> I have just finished assembling my MKARS80.
>>>>>
>>>>> I have lost a 1K resistor during the build and R95 is missing.
>>>>> (I'll replace it tomorrow when I go to Maplin's). Co-incidentially
>>>>> I had a spare capacitor, one of the 100nF ones.
>>>>>
>>>>> I have checked the board twice over, thinking I've put a resistor
>>>>> where a capacitor should be, but can't spot it. Anyway, powered it
>>>>> up and all OK, to the point I set the band up. The display is
>>>>> reading 4.018MHz to 4.411MHz. My guess is that L5 has been wound
>>>>> incorrectly.
>>>>>
>>>>> I'll replace r95 tomorrow, but is the opinion that L5 is in
>>>>> correctly wound the right way to go ?
>>>>>
>>>>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
>>>>> really enjoyed building it last night and this afternoon.
>>>>>

>>>>> 73
>>>>>
>>>>> Adrian MW1LCR
>>>>>
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>>>>> Yahoo! Groups Links
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>>>> Checked by AVG - www.avg.com
>>>> Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date:
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> 05:52:00
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2394 - Release Date: 09/25/09
05:51:00

1173. RE: [mkars80] Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-25 15:27:37 UTC
From: Adrian Rees (MW1LCR)
Topic: 1155 Message: 1173

Hi all

Traced the fault to the junction of R32 and T3. The insulation on the wire hadn't come off properly...now to finish the set and air test it.

I'll let you know how I get on.

Adrian MW1LCR

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 25 September 2009 14:53
To: mkars80@....uk
Subject: Re: [mkars80] Hello all High in Freq

Does the current go up when you whistle into the microphone?

Best first step is to check the voltage on all transistors before going further.

Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Friday, September 25, 2009 1:12 PM
Subject: RE: [mkars80] Hello all High in Freq

> Hi all
>
> I found a dry joint that seems to have cured some of the problems. The
> current consumption on RX is 120mA and on TX 290mA (it was about 235mA
> before I adjusted R2).
>
> The output transistor (Q1) is now getting warm on TX. However, still
> no
> sign
> of RF coming out of it. I'll re-check the joints again I can confirm Q5 is
> he right way around !
>
> Adrian
>
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf

> Of Steve Drury
> Sent: 24 September 2009 19:03
> To: mkars80@yahoogroups.co.uk
> Subject: Re: [mkars80] Hello all High in Freq
>
>
> Check voltages on it and also make sure its the right way round!
>
> Steve
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@btconnect.com>
> To: <mkars80@...>
> Sent: Thursday, September 24, 2009 6:18 PM
> Subject: RE: [mkars80] Hello all High in Freq
>
>
>> Hi Steve
>>
>> Q5 is stone cold. Even switching to TX (the relay changes over and
>> the current consumption increases) but nothing else.
>>
>> I'll check for dry joints etc later.
>>
>> Adrian
>>
>>
>> -----Original Message-----
>> From: mkars80@... [mailto:mkars80@...] On
>> Behalf Of Steve Drury
>> Sent: 24 September 2009 17:44
>> To: mkars80@yahoogroups.co.uk
>> Subject: Re: [mkars80] Hello all High in Freq
>>
>>
>> Adrian,
>>
>> On TX the quiescent current is normally about 270mA before the output
>> transistor bias is set so you have a problem. Check to see if Q5 is
>> geting very warm / hot, it should do!
>>
>> Even so you should be able to hear yourself on another receiver.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>> To: <mkars80@...>
>> Sent: Thursday, September 24, 2009 5:17 PM
>> Subject: RE: [mkars80] Hello all High in Freq

>>
>>
>>> Hello
>>>
>>> I managed to get a 1K Resistor so no worries.
>>>
>>> Well my MKARS is on Freq and working well on RX.
>>>
>>> On TX, I have a standing current of 110mA and that goes to 170mA on
>>> TX.
>>>
>>> However no TX'd Freq, and the Red LED doesn't extinguish (or dim) on
>>> voice peaks.
>>>
>>> Using my 756ProII I can't hear any crackles or pops when I TX, even
>>> on the same Freq as the MKARS.
>>>
>>> I'll check the PC Board later tonight for dry joints etc, as I found
>>> one testing the RX.
>>>
>>> Any hints & tips ?
>>>
>>> Thanks
>>>
>>> Adrian MW1LCR
>>>
>>> -----Original Message-----
>>> From: mkars80@... [mailto:mkars80@...]
>>> On Behalf Of Steve Drury
>>> Sent: 24 September 2009 07:43
>>> To: mkars80@yahoogroups.co.uk
>>> Subject: Re: [mkars80] Hello all High in Freq
>>>
>>>
>>> Adrian,
>>>
>>> Good to hear its now on frequency.
>>>
>>> I will put you a couple of 1K resistors in the post as its unlikely
>>> Maplins will have the correct size.
>>>
>>> Steve G6ALU
>>>
>>> ----- Original Message -----
>>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>>> To: <mkars80@yahoogroups.co.uk>
>>> Sent: Wednesday, September 23, 2009 10:19 PM
>>> Subject: RE: [mkars80] Hello all High in Freq
>>>
>>>

>>>> Hi Steve
>>>>
>>>> No worries on the resistor, as I am off to town tomorrow anyway.
>>>>
>>>> I have re-wound L5, as I used the wrong wire.....D'Uh!
>>>>
>>>> Its now in band 3.4MHz - to about 4MHz.
>>>>
>>>> I'll wait until I have the resistor to finish off the alignment
>>>> etc.
>>>>
>>>> Thanks
>>>>
>>>> Adrian MW1LCR
>>>>
>>>> -----Original Message-----
>>>> From: mkars80@....uk [mailto:mkars80@...]
>>>> On Behalf Of Steve Drury
>>>> Sent: 23 September 2009 18:11
>>>> To: mkars80@...
>>>> Subject: Re: [mkars80] Hello all High in Freq
>>>>
>>>>
>>>> HI Adrian,
>>>> I can pop a resistor in the post if you like... let me know.
>>>>
>>>> You need 51 x 100nF capacitors but Val puts 52 in the bag just in
>>>> case one of us loses one, sorry if its confusing but at least you
>>>> checked your board!
>>>>
>>>> Showing around 4MHz doesn't sound unreasonable if you haven't set
>>>> it up yet - adjust the orange trimmer capacitor for a coverage of
>>>> 3.5 to 3.8MHz - if you have tried to adjust it then the VFO is
>>>> running high in frequency so check to make sure there are enough
>>>> turns on L5.
>>>>
>>>> Regards,
>>>> Steve G6ALU
>>>>
>>>> ----- Original Message -----
>>>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
>>>> To: <mkars80@...>
>>>> Sent: Wednesday, September 23, 2009 6:01 PM
>>>> Subject: [mkars80] Hello all High in Freq
>>>>
>>>>
>>>> Hi all
>>>>
>>>> I have just finished assembling my MKARS80.
>>>>

>>>>> I have lost a 1K resistor during the build and R95 is missing.
>>>>> (I'll replace it tomorrow when I go to Maplin's). Co-incidentially
>>>>> I had a spare capacitor, one of the 100nF ones.
>>>>>
>>>>> I have checked the board twice over, thinking I've put a resistor
>>>>> where a capacitor should be, but can't spot it. Anyway, powered it
>>>>> up and all OK, to the point I set the band up. The display is
>>>>> reading 4.018MHz to 4.411MHz. My guess is that L5 has been wound
>>>>> incorrectly.
>>>>>
>>>>> I'll replace r95 tomorrow, but is the opinion that L5 is in
>>>>> correctly wound the right way to go ?
>>>>>
>>>>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
>>>>> really enjoyed building it last night and this afternoon.
>>>>>
>>>>> 73
>>>>>
>>>>> Adrian MW1LCR
>>>>>
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>>>>> Yahoo! Groups Links
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> 09/24/09
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> Yahoo! Groups Links
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> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2394 - Release Date: 09/25/09
05:51:00

Yahoo! Groups Links

1174. Re: Hello all High in Freq

Yahoo group: mkars80
Date: 2009-09-25 15:53:35 UTC
From: mark
Topic: 1155 Message: 1174

hi Adrian if you need help send me an email and we can do some on air testing from mark 2w0jmk

email address is mw3hqt@...
or
2w0jmk@hamradiodeals.co.uk

--- In mkars80@..., "Adrian Rees \(MW1LCR\)" <rees.a@...> wrote:
>
> Hi all
>
> Traced the fault to the junction of R32 and T3. The insulation on the wire
> hadn't come off properly...now to finish the set and air test it.
>
> I'll let you know how I get on.
>
> Adrian MW1LCR
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Steve Drury
> Sent: 25 September 2009 14:53
> To: mkars80@...
> Subject: Re: [mkars80] Hello all High in Freq
>
>
> Does the current go up when you whistle into the microphone?
>
> Best first step is to check the voltage on all transistors before going
> further.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Friday, September 25, 2009 1:12 PM
> Subject: RE: [mkars80] Hello all High in Freq
>
>
> > Hi all
> >
> > I found a dry joint that seems to have cured some of the problems. The
> > current consumption on RX is 120mA and on TX 290mA (it was about 235mA
> > before I adjusted R2).

> >
> > The output transistor (Q1) is now getting warm on TX. However, still
> > no
> > sign
> > of RF coming out of it. I'll re-check the joints again I can confirm Q5 is
> > he right way around !
> >
> > Adrian
> >
> >
> > -----Original Message-----
> > From: mkars80@... [mailto:mkars80@...] On
> > Behalf
> > Of Steve Drury
> > Sent: 24 September 2009 19:03
> > To: mkars80@...
> > Subject: Re: [mkars80] Hello all High in Freq
> >
> >
> > Check voltages on it and also make sure its the right way round!
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> > Steve
> >
> > ----- Original Message -----
> > From: "Adrian Rees (MW1LCR)" <rees.a@...>
> > To: <mkars80@yahoogroups.co.uk>
> > Sent: Thursday, September 24, 2009 6:18 PM
> > Subject: RE: [mkars80] Hello all High in Freq
> >
> >
> >> Hi Steve
> >>
> >> Q5 is stone cold. Even switching to TX (the relay changes over and
> >> the current consumption increases) but nothing else.
> >>
> >> I'll check for dry joints etc later.
> >>
> >> Adrian
> >>
> >>
> >> -----Original Message-----
> >> From: mkars80@... [mailto:mkars80@...] On
> >> Behalf Of Steve Drury
> >> Sent: 24 September 2009 17:44
> >> To: mkars80@yahoogroups.co.uk
> >> Subject: Re: [mkars80] Hello all High in Freq
> >>
> >>
> >> Adrian,
> >>

> >> On TX the quiescent current is normally about 270mA before the output
> >> transistor bias is set so you have a problem. Check to see if Q5 is
> >> geting very warm / hot, it should do!
> >>
> >> Even so you should be able to hear yourself on another receiver.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> >> To: <mkars80@...>
> >> Sent: Thursday, September 24, 2009 5:17 PM
> >> Subject: RE: [mkars80] Hello all High in Freq
> >>
> >>
> >> Hello
> >>
> >> I managed to get a 1K Resistor so no worries.
> >>
> >> Well my MKARS is on Freq and working well on RX.
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> >> On TX, I have a standing current of 110mA and that goes to 170mA on
> >> TX.
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> >> However no TX'd Freq, and the Red LED doesn't extinguish (or dim) on
> >> voice peaks.
> >>
> >> Using my 756ProII I can't hear any crackles or pops when I TX, even
> >> on the same Freq as the MKARS.
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> >> I'll check the PC Board later tonight for dry joints etc, as I found
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> >> From: mkars80@... [mailto:mkars80@yahoogroups.co.uk]
> >> On Behalf Of Steve Drury
> >> Sent: 24 September 2009 07:43
> >> To: mkars80@...
> >> Subject: Re: [mkars80] Hello all High in Freq
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> >> Adrian,
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> >>> Maplins will have the correct size.
> >>>
> >>> Steve G6ALU
> >>>
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> >>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> >>> To: <mkars80@...>
> >>> Sent: Wednesday, September 23, 2009 10:19 PM
> >>> Subject: RE: [mkars80] Hello all High in Freq
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> >>>
> >>>> Hi Steve
> >>>>
> >>>> No worries on the resistor, as I am off to town tomorrow anyway.
> >>>>
> >>>> I have re-wound L5, as I used the wrong wire.....D'Uh!
> >>>>
> >>>> Its now in band 3.4MHz - to about 4MHz.
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> >>>> Adrian MW1LCR
> >>>>
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> >>>> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...]
> >>>> On Behalf Of Steve Drury
> >>>> Sent: 23 September 2009 18:11
> >>>> To: mkars80@....uk
> >>>> Subject: Re: [mkars80] Hello all High in Freq
> >>>>
> >>>>
> >>>> HI Adrian,
> >>>> I can pop a resistor in the post if you like... let me know.
> >>>>
> >>>> You need 51 x 100nF capacitors but Val puts 52 in the bag just in
> >>>> case one of us loses one, sorry if its confusing but at least you
> >>>> checked your board!
> >>>>
> >>>> Showing around 4MHz doesn't sound unreasonable if you haven't set
> >>>> it up yet - adjust the orange trimmer capacitor for a coverage of
> >>>> 3.5 to 3.8MHz - if you have tried to adjust it then the VFO is
> >>>> running high in frequency so check to make sure there are enough
> >>>> turns on L5.
> >>>>
> >>>> Regards,

> >>>> Steve G6ALU
> >>>>
> >>>> ----- Original Message -----
> >>>> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> >>>> To: <mkars80@....uk>
> >>>> Sent: Wednesday, September 23, 2009 6:01 PM
> >>>> Subject: [mkars80] Hello all High in Freq
> >>>>
> >>>>
> >>>>> Hi all
> >>>>>
> >>>>> I have just finished assembling my MKARS80.
> >>>>>
> >>>>> I have lost a 1K resistor during the build and R95 is missing.
> >>>>> (I'll replace it tomorrow when I go to Maplin's). Co-incidentially
> >>>>> I had a spare capacitor, one of the 100nF ones.
> >>>>>
> >>>>> I have checked the board twice over, thinking I've put a resistor
> >>>>> where a capacitor should be, but can't spot it. Anyway, powered it
> >>>>> up and all OK, to the point I set the band up. The display is
> >>>>> reading 4.018MHz to 4.411MHz. My guess is that L5 has been wound
> >>>>> incorrectly.
> >>>>>
> >>>>> I'll replace r95 tomorrow, but is the opinion that L5 is in
> >>>>> correctly wound the right way to go ?
> >>>>>
> >>>>> Certainly receiving stuff on the receiver. Brilliant kit, and I've
> >>>>> really enjoyed building it last night and this afternoon.
> >>>>>
> >>>>> 73
> >>>>>
> >>>>> Adrian MW1LCR
> >>>>>
> >>>>>
> >>>>>
> >>>>> ------------------------------------
> >>>>>
> >>>>> Yahoo! Groups Links
> >>>>>
> >>>>>
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> >>>>
> >>>> No virus found in this incoming message.
> >>>> Checked by AVG - www.avg.com
> >>>> Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date:
> >>>> 09/23/09 05:52:00
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> >>>> ------------------------------------
> >>>>
> >>>> Yahoo! Groups Links
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> >>>> Yahoo! Groups Links
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> >>> No virus found in this incoming message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date:
> >>> 09/23/09 05:52:00
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> >>> Yahoo! Groups Links
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> >> Yahoo! Groups Links
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> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.409 / Virus Database: 270.13.112/2392 - Release Date:
> > 09/24/09
> > 05:52:00
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> > Yahoo! Groups Links
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.112/2394 - Release Date: 09/25/09
> 05:51:00
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>
> Yahoo! Groups Links
>

1175. Excellent

Yahoo group: mkars80
Date: 2009-09-25 19:07:41 UTC
From: Adrian Rees (MW1LCR)
Topic: 1155 Message: 1175

Hello everyone

I have my MKARS80 now working OK. I am impressed with this little kit and I have had a few QSO's with it.
It was just on the limit of "smallness" for me, anything smaller in component size would have been very difficult. I did find winding the transformers a challenge, mainly as I hadn't done that before.

I did have 2 dry joints in the end.

Any chance of another kit, for say 160m or 40m ?

Very pleased with this and it was just right for me.

I think I have the home brew bug now, but only kits...

73 and thank you for the assistance in getting it going !

Adrian MW1LCR

1176. (no subject)

Yahoo group: mkars80
Date: 2009-09-25 19:14:20 UTC
From: Nick Brok
Topic: 1176 Message: 1176

Hello Steve and others,

Today I succeeded in having a QSO in the Dutch Amateur Net with the MKARS80 with only 5 Watt power!
The other guys where using 100 Watt of power and there was a lot of QRM.
It's giving you a kick that you can have such a success with your home-build transceiver!
It's a nice little 80M transceiver and I hope to make a lot off QSO's with it.
I was transmitting from Eindhoven (brabant) and heart in Friesland (It was not load)

Greetings,

Nick Brok, de Pe1GOO
--
Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paj kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"
Berliozlaan 1 NL5654 SM Eindhoven Netherlands

Send instant messages to your online friends http://uk.messenger.yahoo.com

1177. Display mounting?

Yahoo group: mkars80
Date: 2009-09-26 18:27:17 UTC
From: Randy Moore
Topic: 1177 Message: 1177

I'm to the point of mounting the display and it looks like the display is only mounted to the PCB with a single screw in its upper left, plus the wires down into the socket strip. Is that right? That doesn't seem sturdy enough.

73,
Randy, KS4L

1178. Re: [mkars80] Display mounting?

Yahoo group: mkars80
Date: 2009-09-26 18:45:57 UTC
From: Steve Drury
Topic: 1177 Message: 1178

Hi Randy,

Yes that's correct - you will be surprised how sturdy it is and it doesn't stress the PCB which can cause lost segments.

Steve G6ALU

----- Original Message -----
From: "Randy Moore" <wrmoore47@...>
To: <mkars80@...>
Sent: Saturday, September 26, 2009 7:27 PM
Subject: [mkars80] Display mounting?

> I'm to the point of mounting the display and it looks like the display
> is only mounted to the PCB with a single screw in its upper left, plus
> the wires down into the socket strip. Is that right? That doesn't seem
> sturdy enough.
>
> 73,
> Randy, KS4L
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2396 - Release Date: 09/26/09 05:51:00

1179. Re: [mkars80] Display mounting?

Yahoo group: mkars80
Date: 2009-09-26 19:01:03 UTC
From: Randy Moore
Topic: 1177 Message: 1179

Thanks for the super fast response, Steve. We'll charge on!

Steve Drury wrote:
Hi Randy,
Yes that's correct - you will be surprised how sturdy it is and it doesn't
>
> stress the PCB which can cause lost segments.
>
> Steve G6ALU
>

1180. Mixer balance adjustment?

Yahoo group: mkars80
Date: 2009-09-27 14:59:18 UTC
From: wrmoore47
Topic: 1180 Message: 1180

I am trying to do the mixer balance adjustment with R59 and C103. I have the RF output (antenna) going to a WM-1 wattmeter and from there to a good 50 ohm dummy load. The WM-1 is set to the 100mW range. I barely get any indication on the WM-1 for any setting of R59 and C103. I can zero the output with R59, but there's no change when adjusting C103. I can hear the carrier in my K2's receiver, but it is very weak (I have an 80m dipole connected and the K2 is about 1 foot from the MKARS80). Is this normal, or should I see more response from the mixer balance adjustments?

Everything up to here has gone without problem. My bias adjustment increased the power supply current from 245ma to 295ma (though I found the adjustment of R2 extremely sensitive).

Tnx es 73,
Randy, KS4L

1181. Mixer balance adjustment?

Yahoo group: mkars80
Date: 2009-09-27 15:02:13 UTC
From: wrmoore47
Topic: 1180 Message: 1181

I am trying to do the mixer balance adjustment with R59 and C103. I have the RF output (antenna) going to a WM-1 wattmeter and from there to a good 50 ohm dummy load. I have a stereo connector in the Mic input and have all its connections shorted together. The WM-1 is set to the 100mW range. I barely get any indication on the WM-1 for any setting of R59 and C103. I can zero the output with R59, but there's no change when adjusting C103. I can hear the carrier in my K2's receiver, but it is very weak (I have an 80m dipole connected to the K2 and the K2 is about 1 foot from the MKARS80). Is this normal, or should I see more response from the mixer balance adjustments?

Everything up to here has gone without problem. My bias adjustment increased the power supply current from 245ma to 295ma (though I found the adjustment of R2 extremely sensitive).

Tnx es 73,
Randy, KS4L

1182. Re: [mkars80] Mixer balance adjustment?

Yahoo group: mkars80
Date: 2009-09-27 15:21:46 UTC
From: Steve Drury
Topic: 1180 Message: 1182

Hi Randy,

This sounds normal, confirm it generates about 5W of RF when modulated and
you should be OK. If you can borrow an oscilloscope some time the balance
can be more accurately set but it shouldn't give a problem as it is.

Steve G6ALU

----- Original Message -----
From: "wrmoore47" <wrmoore47@...>
To: <mkars80@...>
Sent: Sunday, September 27, 2009 4:02 PM
Subject: [mkars80] Mixer balance adjustment?

>I am trying to do the mixer balance adjustment with R59 and C103. I have
>the RF output (antenna) going to a WM-1 wattmeter and from there to a good
>50 ohm dummy load. I have a stereo connector in the Mic input and have all
>its connections shorted together. The WM-1 is set to the 100mW range. I
>barely get any indication on the WM-1 for any setting of R59 and C103. I
>can zero the output with R59, but there's no change when adjusting C103. I
>can hear the carrier in my K2's receiver, but it is very weak (I have an
>80m dipole connected to the K2 and the K2 is about 1 foot from the
>MKARS80). Is this normal, or should I see more response from the mixer
>balance adjustments?
>
> Everything up to here has gone without problem. My bias adjustment
> increased the power supply current from 245ma to 295ma (though I found the
> adjustment of R2 extremely sensitive).
>
> Tnx es 73,
> Randy, KS4L
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2397 - Release Date: 09/26/09

17:51:00

1183. First Impressions

Yahoo group: mkars80
Date: 2009-10-01 20:03:10 UTC
From: g4pqp
Topic: 1183 Message: 1183

My kit was ordered by post on a Thursday , I received it on Saturday . You cant do better than that . It was well packaged . The P.C.B. is very good quality and all component placings are clearly marked . The building instructions which are available to download on the internet are very detailed and straightforward . Steve has packaged the components in 6 separate bags with a components list in each bag so components that are difficult to identify are kept separate and can easily be recognised . The components from bag 1 are soldered onto the board first followed by bag 2 and so on . Components are fitted in batches of a particular value . Each batch, or single component if there is only 1 has a clear explanation of how the component is identified, eg resistor 22R red red black , capacitor 100pf marked 101 . Component numbers are all listed with a check box next to them so that they can be crossed of the list as they are fitted one by one . My close up eyesight is not very good but with the aid of a pair of 3.5 magnification reading glasses ,reading the pcb legend and soldering the component to the board has not been a problem . I have found that I needed to use a magnifying glass to identify some of the components but again not a problem . I have found that a hands free headlamp (fits on a strap around your head) has been invaluable . The particular one that I use has 7 led,s with 3 intensity settings . I find that the blue / white light is very good for identifying the colour coding of various components . It is currently on offer at Total filling stations for £3. 99 . Construction of my kit is in the early stages . All components from bag one have been fitted and a few from bag 2 . I look forward to its completion and I feel sure that when completed it will give me much satisfaction . Last but not least , many thanks to Steve G6ALU for all of his hard work with the design and development of this kit . You only need to look at this forum to see how successful the kit is and how it has helped to promote the true amateur spirit not only in this country but around the world .
73,s de Phil G4PQP.

1184. Re: [mkars80] First Impressions

Yahoo group: mkars80
Date: 2009-10-01 20:07:53 UTC
From: Steve Drury
Topic: 1183 Message: 1184

Thanks for the compliments Phil,

I should point out that most of the kitting is done by my wife Val (M6FLO), ladies tend to be more accurate!

Steve G6ALU

----- Original Message -----
From: "g4pqp" <g4pqp@...>
To: <mkars80@...>
Sent: Thursday, October 01, 2009 9:03 PM
Subject: [mkars80] First Impressions

My kit was ordered by post on a Thursday , I received it on Saturday . You cant do better than that . It was well packaged . The P.C.B. is very good quality and all component placings are clearly marked . The building instructions which are available to download on the internet are very detailed and straightforward . Steve has packaged the components in 6 separate bags with a components list in each bag so components that are difficult to identify are kept separate and can easily be recognised .
The components from bag 1 are soldered onto the board first followed by bag 2 and so on . Components are fitted in batches of a particular value . Each batch, or single component if there is only 1 has a clear explanation of how the component is identified, eg resistor 22R red red black , capacitor 100pf marked 101 . Component numbers are all listed with a check box next to them so that they can be crossed of the list as they are fitted one by one . My close up eyesight is not very good but with the aid of a pair of 3.5 magnification reading glasses ,reading the pcb legend and soldering the component to the board has not been a problem . I have found that I needed to use a magnifying glass to identify some of the components but again not a problem . I have found that a hands free headlamp (fits on a strap around your head) has been invaluable . The particular one that I use has 7 led,s with 3 intensity settings . I find that the blue / white light is very good for identifying the colour coding of various components . It is currently on offer at Total filling stations for ?3. 99 . Construction of my kit is in the early stages . All components from bag one have been fitted and a few from bag 2 . I look forward to its completion and I feel sure that when completed it will give me much satisfaction . Last but not least , many thanks to Steve G6ALU for all of his hard work with the design and development of this kit . You only need to look at this forum to see how successful the kit is and how it has helped to promote the true amateur spirit not only in this country but around the world .
73,s de Phil G4PQP.

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.14.1/2407 - Release Date: 10/01/09
06:34:00

1185. Re: [mkars80] First Impressions

Yahoo group: mkars80
Date: 2009-10-01 20:49:29 UTC
From: David
Topic: 1183 Message: 1185

Hey Steve

Your wife's call should be M6VAL. But in any event I like FLO as it
is an abbreviation of my mothers name hi.

Phil's comments came as no surprise to me or anyone else in the group
I wouldn't have thought, and I am only waiting for the MKARS40 hi.

Cheers

Dave

On 01/10/2009 21:07:53, Steve Drury (g6alu@...) wrote:
> Thanks for the compliments Phil,
>
> I should point out that most of the kitting is done by my wife Val
(M6FLO),
>
> ladies tend to be more accurate!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g4pqp"
> To:
> Sent: Thursday, October 01, 2009 9:03 PM
> Subject: [mkars80] First Impressions
>
>
> My kit was ordered by post on a Thursday , I received it on Saturday
. You
>
> cant do better than that . It was well packaged . The P.C.B. is very
good
>
> quality and all component placings are clearly marked . The building
> instructions which are available to download on the internet are very
> detailed and straightforward . Steve has packaged the components in 6
> separate bags with a components list in each bag so components that are

1186. New Member

Yahoo group: mkars80
Date: 2009-10-03 12:57:33 UTC
From: g4dfv
Topic: 1186 Message: 1186

Hello all,

I am Duncan G4DFV, a new member of this group.

Recently I obtained a complete but unbuilt MKARS80 kit (307) in which all the component bags refer to instructions version 1.1.

I have downloaded and printed out the instruction manual version 1.2 which I presume is valid to use with my kit?

Looking at the later manual (v1.3), I have noted the modifications, in particular the changes of two capacitors associated with the VFO for better stability.

Before I begin building, I would like to know if there is anything else I should know that I have missed or isn't covered by the instruction manual that would save me any headaches later on?

Any help would be most appreciated.

Duncan G4DFV

1187. MKARS80 mods by G8EEY

Yahoo group: mkars80
Date: 2009-10-03 19:03:09 UTC
From: panzerbeeb
Topic: 1187 Message: 1187

Hi Steve and all,
After a nudge from Bob G8SDU,I have added a folder to the files section called 'MKARS80 mods by G8EEY', which has a cumulative version of schematic parts for various mods that I have incorporated. Not that there is anything wrong with the kit as supplied, honest, just a compulsion to fiddle with things.
73s Mike, G8EEY.

1188. Re: [mkars80] MKARS80 mods by G8EEY

Yahoo group: mkars80
Date: 2009-10-03 19:24:25 UTC
From: Steve Drury
Topic: 1187 Message: 1188

Hello Mike,

I have just gone to accept the files on to the group but Yahoo says they aren't there! I've had this happen before, last time they re-appeared after a few hours. When this happens I will try again!

Steve G6ALU

----- Original Message -----
From: "panzerbeeb" <mike_mobbs@...>
To: <mkars80@...>
Sent: Saturday, October 03, 2009 8:03 PM
Subject: [mkars80] MKARS80 mods by G8EEY

> Hi Steve and all,
> After a nudge from Bob G8SDU,I have added a folder to the files section
> called 'MKARS80 mods by G8EEY', which has a cumulative version of
> schematic parts for various mods that I have incorporated. Not that there
> is anything wrong with the kit as supplied, honest, just a compulsion to
> fiddle with things.
> 73s Mike, G8EEY.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.420 / Virus Database: 270.14.3/2411 - Release Date: 10/03/09 06:20:00

1189. Re: MKARS80 mods by G8EEY

Yahoo group: mkars80
Date: 2009-10-03 20:44:03 UTC
From: panzerbeeb
Topic: 1187 Message: 1189

Hi Steve,

I have just checked and the folder and file are visible to me, and the 3 photos are in the photo section.

Mike G8EEY.

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Hello Mike,
>
> I have just gone to accept the files on to the group but Yahoo says they
> aren't there! I've had this happen before, last time they re-appeared after
> a few hours. When this happens I will try again!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "panzerbeeb" <mike_mobbs@...>
> To: <mkars80@...>
> Sent: Saturday, October 03, 2009 8:03 PM
> Subject: [mkars80] MKARS80 mods by G8EEY
>
>
> > Hi Steve and all,
> > After a nudge from Bob G8SDU,I have added a folder to the files section
> > called 'MKARS80 mods by G8EEY', which has a cumulative version of
> > schematic parts for various mods that I have incorporated. Not that there
> > is anything wrong with the kit as supplied, honest, just a compulsion to
> > fiddle with things.
> > 73s Mike, G8EEY.
> >
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.420 / Virus Database: 270.14.3/2411 - Release Date: 10/03/09
> 06:20:00
>

1190. Re: [mkars80] Re: MKARS80 mods by G8EEY

Yahoo group: mkars80
Date: 2009-10-03 20:49:49 UTC
From: Steve Drury
Topic: 1187 Message: 1190

Congratulations Mike - you seem to have administrator rights!

Steve G6ALU

----- Original Message -----
From: "panzerbeeb" <mike_mobbs@...>
To: <mkars80@...>
Sent: Saturday, October 03, 2009 9:44 PM
Subject: [mkars80] Re: MKARS80 mods by G8EEY

> Hi Steve,
>
> I have just checked and the folder and file are visible to me, and the 3
> photos are in the photo section.
>
> Mike G8EEY.
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hello Mike,
>>
>> I have just gone to accept the files on to the group but Yahoo says they
>> aren't there! I've had this happen before, last time they re-appeared
>> after
>> a few hours. When this happens I will try again!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "panzerbeeb" <mike_mobbs@...>
>> To: <mkars80@...>
>> Sent: Saturday, October 03, 2009 8:03 PM
>> Subject: [mkars80] MKARS80 mods by G8EEY
>>
>>
>> > Hi Steve and all,
>> > After a nudge from Bob G8SDU,I have added a folder to the files section
>> > called 'MKARS80 mods by G8EEY', which has a cumulative version of
>> > schematic parts for various mods that I have incorporated. Not that
>> > there
>> > is anything wrong with the kit as supplied, honest, just a compulsion
>> > to
>> > fiddle with things.
>> > 73s Mike, G8EEY.
>> >
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>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.420 / Virus Database: 270.14.3/2411 - Release Date: 10/03/09
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.420 / Virus Database: 270.14.3/2411 - Release Date: 10/03/09
06:20:00

1191. Re: MKARS80 mods by G8EEY

Yahoo group: mkars80
Date: 2009-10-04 15:13:17 UTC
From: panzerbeeb
Topic: 1187 Message: 1191

Hi Steve,

Oo-er, I'd better be careful what I do then....
When I uploaded the photos I did get a 'waiting authorisation' message, so I guess you did manage to allow them even if yahoo said they weren't there. The folder and file in the files area went straight in.

Mike G8EEY.

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Congratulations Mike - you seem to have administrator rights!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "panzerbeeb" <mike_mobbs@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Saturday, October 03, 2009 9:44 PM
> Subject: [mkars80] Re: MKARS80 mods by G8EEY
>
>
> > Hi Steve,
> >
> > I have just checked and the folder and file are visible to me, and the 3
> > photos are in the photo section.
> >
> > Mike G8EEY.
> >
> > --- In mkars80@....uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Hello Mike,
> >>
> >> I have just gone to accept the files on to the group but Yahoo says they
> >> aren't there! I've had this happen before, last time they re-appeared
> >> after
> >> a few hours. When this happens I will try again!
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "panzerbeeb" <mike_mobbs@>
> >> To: <mkars80@...>
> >> Sent: Saturday, October 03, 2009 8:03 PM
> >> Subject: [mkars80] MKARS80 mods by G8EEY
> >>

> >>
> >> > Hi Steve and all,
> >> > After a nudge from Bob G8SDU,I have added a folder to the files section
> >> > called 'MKARS80 mods by G8EEY', which has a cumulative version of
> >> > schematic parts for various mods that I have incorporated. Not that
> >> > there
> >> > is anything wrong with the kit as supplied, honest, just a compulsion
> >> > to
> >> > fiddle with things.
> >> > 73s Mike, G8EEY.
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> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.420 / Virus Database: 270.14.3/2411 - Release Date: 10/03/09
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> Checked by AVG - www.avg.com
> Version: 8.5.420 / Virus Database: 270.14.3/2411 - Release Date: 10/03/09
> 06:20:00

>

1192. Re: [mkars80] New Member

Yahoo group: mkars80
Date: 2009-10-04 15:20:32 UTC
From: Steve Drury
Topic: 1186 Message: 1192

Sorry for the slow response Duncan, I've been busy this weekend!

For you version V1.2 is appropriate, since this kit was sold there have been a couple of improvements; the first is a modification to the VFO - two capacitors have been changed and the second is a revision to the micro firmware.

I would recommend getting the VFO mod so please send me a stamped addressed envelope and I will send the new capacitors free of charge.

Regards,
Steve G6ALU

----- Original Message -----
From: "g4dfv" <g4dfv.electron1@...>
To: <mkars80@...>
Sent: Saturday, October 03, 2009 1:57 PM
Subject: [mkars80] New Member

> Hello all,
>
> I am Duncan G4DFV, a new member of this group.
>
> Recently I obtained a complete but unbuilt MKARS80 kit (307) in which all
> the component bags refer to instructions version 1.1.
>
> I have downloaded and printed out the instruction manual version 1.2 which
> I presume is valid to use with my kit?
>
> Looking at the later manual (v1.3), I have noted the modifications, in
> particular the changes of two capacitors associated with the VFO for
> better stability.
>
> Before I begin building, I would like to know if there is anything else I
> should know that I have missed or isn't covered by the instruction manual
> that would save me any headaches later on?
>
> Any help would be most appreciated.
>
> Duncan G4DFV
>
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.420 / Virus Database: 270.14.3/2409 - Release Date: 10/02/09
06:46:00

1193. Re: New Member

Yahoo group: mkars80
Date: 2009-10-05 08:04:46 UTC
From: g4gcl
Topic: 1186 Message: 1193

Hi Duncan,

I'm not sure if you have a programmer for the PIC to install version 2.4 but if not perhaps I can help?

Please contact me off list if I can do anything.

73, John.

--- In mkars80@..., "g4dfv" <g4dfv.electron1@...> wrote:
>
> Hello all,
>
> I am Duncan G4DFV, a new member of this group.
>
> Recently I obtained a complete but unbuilt MKARS80 kit (307) in which all the component bags refer to instructions version 1.1.
>
> I have downloaded and printed out the instruction manual version 1.2 which I presume is valid to use with my kit?
>
> Looking at the later manual (v1.3), I have noted the modifications, in particular the changes of two capacitors associated with the VFO for better stability.
>
> Before I begin building, I would like to know if there is anything else I should know that I have missed or isn't covered by the instruction manual that would save me any headaches later on?
>
> Any help would be most appreciated.
>
> Duncan G4DFV
>

1194. Re: [mkars80] New Member

Yahoo group: mkars80
Date: 2009-10-05 08:23:17 UTC
From: G4DFV
Topic: 1186 Message: 1194

Many thanks for your offer, Steve.
I will send the SAE promptly.

Duncan G4DFV

[Non-text portions of this message have been removed]

1195. Again: another mkars80-project succesfully completed

Yahoo group: mkars80
Date: 2009-10-05 11:17:31 UTC
From: Nick Brok
Topic: 1195 Message: 1195

Hello,

After a major modification in the balance-modulator I succeeded in having a good quality modulation. I did some experiments with an electret and a dynamic (300 Ohm) microphone. The electret gave the best quality,
In stead of the piggy-nose transformer I used a toroid as used in the bitx20 (8 trifilar windings.)
Now the minimum carrier-output is 400mVtt in stead of 1.5Vtt!
I think that I made some mistakes winding the piggy-nose transformer. The bigger toroid transformer is working fine.

Now everyone can understand me on 80 meters and I make a lot off nice QSO's.

Greetings,

Nick Brok, de Pe1GOO
--
Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paji kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"
Berliozlaan 1 NL5654 SM Eindhoven Netherlands

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1196. Re: [mkars80] Again: another mkars80-project succesfully completed

Yahoo group: mkars80
Date: 2009-10-05 13:00:15 UTC
From: g6alu@tiscali.co.uk
Topic: 1195 Message: 1196

Hello Nick,

I can asure you there isn't any need to modify the transformer - some replacement ballun cores are in the post should you want to change it back!

Steve G6ALU

>----Original Message----
>From: pe1goo@...
>Date: 05/10/2009 12:17
>To: <mkars80@...>
>Subj: [mkars80] Again: another mkars80-project succesfully completed
>
>Hello,
>
>After a major modification in the balance-modulator I succeeded in having a good quality modulation. I did some experiments with an electret and a dynamic (300 Ohm) microphone. The electret gave the best quality,
>In stead of the piggy-nose transformer I used a toroid as used in the bitx20 (8 trifilar windings.)
>Now the minimum carrier-output is 400mVtt in stead of 1.5Vtt!
>I think that I made some mistakes winding the piggy-nose transformer. The bigger toroid transformer is working fine.
>
>Now everyone can understand me on 80 meters and I make a lot off nice QSO's.
>
>Greetings,
>
>Nick Brok, de Pe1GOO
>--
>Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paji kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"
>Berliozlaan 1 NL5654 SM Eindhoven Netherlands
>
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>
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Internet Security tips and offers from Tiscali - http://www.tiscali.co.uk/security

_____

1197. Re: [mkars80] Again: another mkars80-project succesfully completed

Yahoo group: mkars80
Date: 2009-10-06 04:48:22 UTC
From: Nick Brok
Topic: 1195 Message: 1197

--- On Mon, 10/5/09, g6alu@... <g6alu@...> wrote:

From: g6alu@... <g6alu@...>
Subject: Re: [mkars80] Again: another mkars80-project succesfully completed
To: mkars80@...
Date: Monday, October 5, 2009, 3:00 PM

Hello Nick,

I can asure you there isn't any need to modify the transformer - some

replacement ballun cores are in the post should you want to change it

back!

Steve G6ALU

>----Original Message----

>From: pe1goo@yahoo. com

>Date: 05/10/2009 12:17

>To: <mkars80@yahoogroups .co.uk>

>Subj: [mkars80] Again: another mkars80-project succesfully completed

>

>Hello,

>

>After a major modification in the balance-modulator I succeeded in

having a good quality modulation. I did some experiments with an

electret and a dynamic (300 Ohm) microphone. The electret gave the best

quality,

>In stead of the piggy-nose transformer I used a toroid as used in the

bitx20 (8 trifilar windings.)

>Now the minimum carrier-output is 400mVtt in stead of 1.5Vtt!

>I think that I made some mistakes winding the piggy-nose transformer.

The bigger toroid transformer is working fine.

>

>Now everyone can understand me on 80 meters and I make a lot off nice

QSO's.

>

>Greetings,

>

>Nick Brok, de Pe1GOO

>--

>Uitspraak van Maïra (De drakenmeester) : "sèi paji sai dia degom

wianon fio paji kwieimin si anrien est toia sèi si doika!" = "Om je op

dat riskante punt uit je concentratie te halen is vragen om

moeilijkheden! "

>Berliozlaan 1 NL5654 SM Eindhoven Netherlands

>

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yahoo.com

>

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>

>Yahoo! Groups Links

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>

Internet Security tips and offers from Tiscali - http://www.tiscali. co.uk/security

---------- --------- --------- --------- --------- --------- -

Hello Steve,There is nothing wrong with your piggy-nose transformers. They are only very, very small. Your method of identification of the connections is confusing because you use only one colour of wire. Because this was the first little piggy-nose-transformer I wound, making a mistake is very easy. My English is not that good also, so I misread your advice

how to identify the windings. I did wound a bigger transformer as in the original bitx20 from Doug Hendricks because your replacement piggy-nose wasn't received yet. I have for that bigger transformer three different coloured wires, so they are easy to identify. The other small transformers are OK, so I know that I really made a mistake with the balance transformer now. The mkars is working great and I can always wind a new transformer when the piggy-noses arrived. But it's working now, so I close the enclosure and make a lot of nice QSO's with it.
Greetings,

Nick Brok, de Pe1GOO

--

Uitspraak van Maïra (De drakenmeester): "sèi paji sai dia degom wianon fio paji kwieimin si anrien est toia sèi si doika!" = "Om je op dat riskante punt uit je concentratie te halen is vragen om moeilijkheden!"

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

Send instant messages to your online friends http://uk.messenger.yahoo.com

[Non-text portions of this message have been removed]

1198. Tune-Up Control ?

Yahoo group: mkars80
Date: 2009-10-07 13:55:36 UTC
From: g8xlh
Topic: 1198 Message: 1198

Hi,

Having built the MKARS80 kit (Very pleased) I would find it very useful
if we could have a "Tune" control to generate an RF carrier. This would be quite useful for testing, and also help with a manual ATU. Is there a simple way to perhaps unbalance the carrier suppression to generate some RF Powerr without using the Audio input.

Regards

Alan

G8XLH

1199. Re: [mkars80] Tune-Up Control ?

Yahoo group: mkars80
Date: 2009-10-07 14:08:49 UTC
From: John Housego
Topic: 1198 Message: 1199

Hello Alan,

This was an issue I had before getting the CW adaptor which is available also from Radio Kits. But what I did prior to this was use a small wire ended piezo sounder (such as Maplins FM59P) off a 1.5v battery and held that to the mic. Yes crude but it worked very well especially if you cant whistle for any useful length like me!!

73 de John (M0TIF)

On Wed, 2009-10-07 at 13:55 +0000, g8xlh wrote:

>
>
> Hi,
>
> Having built the MKARS80 kit (Very pleased) I would find it very
> useful
> if we could have a "Tune" control to generate an RF carrier. This
> would be quite useful for testing, and also help with a manual ATU. Is
> there a simple way to perhaps unbalance the carrier suppression to
> generate some RF Powerr without using the Audio input.
>
> Regards
>
> Alan
>
> G8XLH
>
>
>
>
>
>

[Non-text portions of this message have been removed]

1200. Re: Tune-Up Control ?

Yahoo group: mkars80
Date: 2009-10-07 14:23:41 UTC
From: g8xlh
Topic: 1198 Message: 1200

Hi John,

I did something similar when I was building the kit, I used a morse code practice oscillator to generate an audio tone. I have seen the CW Keyer, and I am sure its a very nice product but an overkill for this application. I did think about making a small audio oscillator, and then reduce the audio feed into the Mic circuit.I guess it would be nice if the tone was not to rich in harmonics ? Any ideas for a good circuit to use ?

Regards

Alan

--- In mkars80@..., John Housego <John.Housego1@...> wrote:
>
> Hello Alan,
>
> This was an issue I had before getting the CW adaptor which is available
> also from Radio Kits. But what I did prior to this was use a small wire
> ended piezo sounder (such as Maplins FM59P) off a 1.5v battery and held
> that to the mic. Yes crude but it worked very well especially if you
> cant whistle for any useful length like me!!
>
> 73 de John (M0TIF)
>
>
> On Wed, 2009-10-07 at 13:55 +0000, g8xlh wrote:
>
> > >
> > >
> > > Hi,
> > >
> > > Having built the MKARS80 kit (Very pleased) I would find it very
> > > useful
> > > if we could have a "Tune" control to generate an RF carrier. This
> > > would be quite useful for testing, and also help with a manual ATU. Is
> > > there a simple way to perhaps unbalance the carrier suppression to
> > > generate some RF Powerr without using the Audio input.
> > >
> > > Regards
> > >
> > > Alan
> > >
> > > G8XLH
> > >
> > >
> > >

> >
> >
>
>
> [Non-text portions of this message have been removed]
>

1201. Re: [mkars80] Re: Tune-Up Control ?

Yahoo group: mkars80
Date: 2009-10-07 15:48:20 UTC
From: John YAHOO
Topic: 1198 Message: 1201

Why not use a transistor to switch a resistor across the balance pot to get some carrier to the PA?

John G3UGY

> Hi John,
>
> I did something similar when I was building the kit, I used a morse code
> practice oscillator to generate an audio tone. I have seen the CW Keyer,
> and I am sure its a very nice product but an overkill for this
> application. I did think about making a small audio oscillator, and then
> reduce the audio feed into the Mic circuit.I guess it would be nice if the
> tone was not to rich in harmonics ? Any ideas for a good circuit to use ?
>
> Regards
>
> Alan
>
>
> --- In mkars80@..., John Housego <John.Housego1@...> wrote:
>>
>> Hello Alan,
>>
>> This was an issue I had before getting the CW adaptor which is available
>> also from Radio Kits. But what I did prior to this was use a small wire
>> ended piezo sounder (such as Maplins FM59P) off a 1.5v battery and held
>> that to the mic. Yes crude but it worked very well especially if you
>> cant whistle for any useful length like me!!
>>
>> 73 de John (M0TIF)
>>
>>
>> On Wed, 2009-10-07 at 13:55 +0000, g8xlh wrote:
>>
>> >
>> >
>> > Hi,
>> >
>> > Having built the MKARS80 kit (Very pleased) I would find it very
>> > useful
>> > if we could have a "Tune" control to generate an RF carrier. This
>> > would be quite useful for testing, and also help with a manual ATU. Is
>> > there a simple way to perhaps unbalance the carrier suppression to
>> > generate some RF Powerr without using the Audio input.
>> >

>> > Regards
>> >
>> > Alan
>> >
>> > G8XLH

>

1202. RE: [mkars80] Tune-Up Control ?

Yahoo group: mkars80
Date: 2009-10-07 16:23:17 UTC
From: David White
Topic: 1198 Message: 1202

crude maybe steve, but thats how the early HF yaesu rigs tuned up, and if its good enough for Yaesu then its good enough for MKARS80 de G3ZPA

NNNN

To: mkars80@...
From: John.Housego1@...
Date: Wed, 7 Oct 2009 15:08:49 +0100
Subject: Re: [mkars80] Tune-Up Control ?

Hello Alan,

This was an issue I had before getting the CW adaptor which is available also from Radio Kits. But what I did prior to this was use a small wire ended piezo sounder (such as Maplins FM59P) off a 1.5v battery and held that to the mic. Yes crude but it worked very well especially if you cant whistle for any useful length like me!!

73 de John (M0TIF)

On Wed, 2009-10-07 at 13:55 +0000, g8xlh wrote:

>
>
> Hi,
>
> Having built the MKARS80 kit (Very pleased) I would find it very
> useful
> if we could have a "Tune" control to generate an RF carrier. This
> would be quite useful for testing, and also help with a manual ATU. Is
> there a simple way to perhaps unbalance the carrier suppression to
> generate some RF Powerr without using the Audio input.
>
> Regards
>
> Alan
>
> G8XLH
>
>
>
>
>

[Non-text portions of this message have been removed]

Use Hotmail to send and receive mail from your different email accounts.
http://clk.atdmt.com/UKM/go/167688463/direct/01/

[Non-text portions of this message have been removed]

1203. Re: [mkars80] Tune-Up Control ?

Yahoo group: mkars80
Date: 2009-10-07 18:00:08 UTC
From: Steve Drury
Topic: 1198 Message: 1203

You may find the carrier is atenuated by the crystal filter but you are
welcome to give it a go.

Steve

----- Original Message -----
From: "David White" <davidwhite400@...>
To: <mkars80@...>
Sent: Wednesday, October 07, 2009 5:23 PM
Subject: RE: [mkars80] Tune-Up Control ?

>
> crude maybe steve, but thats how the early HF yaesu rigs tuned up, and if
> its good enough for Yaesu then its good enough for MKARS80 de G3ZPA
>
>
>
> NNNN
>
>
>
>
>
>
>
>
>
> To: mkars80@...
> From: John.Housego1@...
> Date: Wed, 7 Oct 2009 15:08:49 +0100
> Subject: Re: [mkars80] Tune-Up Control ?
>
>
>
>
>
>
> Hello Alan,
>
> This was an issue I had before getting the CW adaptor which is available
> also from Radio Kits. But what I did prior to this was use a small wire
> ended piezo sounder (such as Maplins FM59P) off a 1.5v battery and held
> that to the mic. Yes crude but it worked very well especially if you
> cant whistle for any useful length like me!!
>
> 73 de John (M0TIF)
>

> On Wed, 2009-10-07 at 13:55 +0000, g8xlh wrote:
>
>>
>>
>> Hi,
>>
>> Having built the MKARS80 kit (Very pleased) I would find it very
>> useful
>> if we could have a "Tune" control to generate an RF carrier. This
>> would be quite useful for testing, and also help with a manual ATU. Is
>> there a simple way to perhaps unbalance the carrier suppression to
>> generate some RF Powerr without using the Audio input.
>>
>> Regards
>>
>> Alan
>>
>> G8XLH
>>
>>
>>
>>
>>
>
> [Non-text portions of this message have been removed]
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>
>
> _____
> Use Hotmail to send and receive mail from your different email accounts.
> http://clk.atdmt.com/UKM/go/167688463/direct/01/
>
> [Non-text portions of this message have been removed]
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.420 / Virus Database: 270.14.4/2417 - Release Date: 10/06/09
06:50:00

1204. Another new member

Yahoo group: mkars80
Date: 2009-10-10 13:54:03 UTC
From: J FLETCHER
Topic: 1198 Message: 1204

Hi All!

I bought the MKARS80 kit at the National Hamfest and joined this group last weekend. I've almost finished assembling the board. I must congratulate everyone involved in producing this kit. The quality of the PCB and instructions are excellent, but everyone in the group already knows that...

I wish I'd bought the CW adaptor at the same time, so I could choose a box to fit both. I'll probably buy a diecast box to make it extra-rugged. I'm not expecting any problems with making it work, having built the BITX20 from available parts last year.

Hope to join you on the net soon!

73,

John G4EDX

[Non-text portions of this message have been removed]

1205. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-10 14:13:34 UTC
From: Steve Drury
Topic: 1198 Message: 1205

Thanks for the compliments John,

I hope to be on the net tomorrow morning - 9:30 AM local time, 3.690 MHz ?
QRM.

Steve G6ALU

----- Original Message -----
From: "J FLETCHER" <jfletcher427@...>
To: <mkars80@...>
Sent: Saturday, October 10, 2009 2:54 PM
Subject: [mkars80] Another new member

Hi All!

I bought the MKARS80 kit at the National Hamfest and joined this group last
weekend. I've almost finished assembling the board. I must congratulate
everyone involved in producing this kit. The quality of the PCB and
instructions are excellent, but everyone in the group already knows that...

I wish I'd bought the CW adaptor at the same time, so I could choose a box
to fit both. I'll probably buy a diecast box to make it extra-rugged. I'm
not expecting any problems with making it work, having built the BITX20 from
available parts last year.

Hope to join you on the net soon!

73,

John G4EDX

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.421 / Virus Database: 270.14.9/2426 - Release Date: 10/09/09
18:43:00

1206. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-10 15:02:02 UTC
From: G4DFV
Topic: 1198 Message: 1206

Welcome John,

I too am a new member of the group.
I also obtained a MKARS80 kit from the
Hamfest - there was one for sale on one of the outside stalls - I didn't know they were for sale inside the main hall - I found this out later!
I must echo your comments John, the quality of the kit
is superb, second to none. The instructions are first class.
Mine is now complete and I am busy fitting it into a case which I have fabricated big enough to also include an internal
speaker.
With a 12.5v dryfit battery as power source, on a whistle it delivers 4 Watts into my 50 ohms dummy load/wattmeter.
Is that about right? (Comments please)
I am looking forward to getting on air with it soon!

Duncan G4DFV

[Non-text portions of this message have been removed]

1207. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-10 22:31:51 UTC
From: Steve Drury
Topic: 1198 Message: 1207

Hi Duncan,

Sounds about right, I would expect around 5W from 12.5V... does the LED flicker on and off when talking normally about 6" from the microphone?

Steve G6ALU

----- Original Message -----
From: "G4DFV" <g4dfv.electron1@...>
To: <mkars80@...>
Sent: Saturday, October 10, 2009 4:02 PM
Subject: Re: [mkars80] Another new member

> Welcome John,
>
> I too am a new member of the group.
> I also obtained a MKARS80 kit from the
> Hamfest - there was one for sale on one of the outside stalls - I didn't
> know they were for sale inside the main hall - I found this out later!
> I must echo your comments John, the quality of the kit
> is superb, second to none. The instructions are first class.
> Mine is now complete and I am busy fitting it into a case which I have
> fabricated big enough to also include an internal
> speaker.
> With a 12.5v dryfit battery as power source, on a whistle it delivers 4
> Watts into my 50 ohms dummy load/wattmeter.
> Is that about right? (Comments please)
> I am looking forward to getting on air with it soon!
>
> Duncan G4DFV
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.421 / Virus Database: 270.14.9/2426 - Release Date: 10/09/09
18:43:00

1208. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-11 09:30:12 UTC
From: G4DFV
Topic: 1198 Message: 1208

Hi Steve,

Yes, the LED does flicker at about that distance - I am using the modified Maplin speaker/mike.

An interesting observation - when I run the transceiver off a stabilised mains power supply set to 13.8 v, I notice I get more power (~ 6 Watts) at the 3.500 Mhz end of the band, and lower power (~ 4.5 Watts) at 3.800Mhz.

I listened around 3.690 Mhz this morning, there was an ON contest station quite close to this frequency and the band near to was crowded with other QSO's going on.

Was there any successful MKARS80 net activity today?

I did manage my first QSO with a station in Warrington who gave me 55/56, then I worked one of the ON contest stations further up the band - (59 of course!).

Duncan G4DFV

[Non-text portions of this message have been removed]

1209. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-11 09:54:47 UTC
From: ALLENCrdr@aol.com
Topic: 1198 Message: 1209

Hi Graham

There was activity on 3.690mhz today,between 09.30 and 10.00hrs
You where heard very clearly 5+5 calling CQ abt 10 times here in
Dartford kent.
I was on freq with M1EEL,and we tried several to get back to you.

73

Allen M1CXK

[Non-text portions of this message have been removed]

1210. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-11 10:09:47 UTC
From: ALLENCrdr@aol.com
Topic: 1198 Message: 1210

That was Duncan heard today (Sun) not Graham.
G4DFV, sorry.

Allen

[Non-text portions of this message have been removed]

1211. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-11 10:28:01 UTC
From: Steve Drury
Topic: 1198 Message: 1211

Duncan,
See if you can count the turns on the LPF toroids, its easy to add one by mistake!

You can try adjusting the BPF capacitors C54, C68 and C79 whilst monitoring the output - check though that you don't reduce the output at the bottom end.

All we could hear on 3.690MHz was a very strong ON station, I heard G4MDR calling around 3.6885MHz so had quite a long chat down there. G4PQP joined us some time later (QRO, MKARS80 perhaps next week!), G3UD was heard call but I couldn't establish a 2 way contact.....

Steve G6ALU

----- Original Message -----
From: "G4DFV" <g4dfv.electron1@...>
To: <mkars80@...>
Sent: Sunday, October 11, 2009 10:30 AM
Subject: Re: [mkars80] Another new member

> Hi Steve,
>
> Yes, the LED does flicker at about that distance - I am using the modified
> Maplin speaker/mike.
>
> An interesting observation - when I run the transceiver off a stabilised
> mains power supply set to 13.8 v, I notice I get more power (~ 6 Watts) at
> the 3.500 Mhz end of the band, and lower power (~ 4.5 Watts) at 3.800Mhz.
>
> I listened around 3.690 Mhz this morning, there was an ON contest station
> quite close to this frequency and the band near to was crowded with other
> QSO's going on.
>
> Was there any successful MKARS80 net activity today?
>
> I did manage my first QSO with a station in Warrington who gave me 55/56,
> then I worked one of the ON contest stations further up the band - (59 of
> course!).
>
> Duncan G4DFV
>
>
>
>
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.421 / Virus Database: 270.14.9/2427 - Release Date: 10/10/09
06:39:00

1212. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-11 11:51:48 UTC
From: Graham Bloor
Topic: 1198 Message: 1212

Hi heard you come back to me Steve but that's all I got , no QRM just very weak! down in the noise. Graham G3UD

--- On Sun, 11/10/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Another new member
To: mkars80@...
Date: Sunday, 11 October, 2009, 10:28 AM

Duncan,
See if you can count the turns on the LPF toroids, its easy to add one by mistake!

You can try adjusting the BPF capacitors C54, C68 and C79 whilst monitoring the output - check though that you don't reduce the output at the bottom end.

All we could hear on 3.690MHz was a very strong ON station, I heard G4MDR calling around 3.6885MHz so had quite a long chat down there. G4PQP joined us some time later (QRO, MKARS80 perhaps next week!), G3UD was heard call but I couldn't establish a 2 way contact.....

Steve G6ALU

----- Original Message -----
From: "G4DFV" <g4dfv.electron1@ ntlworld. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Sunday, October 11, 2009 10:30 AM
Subject: Re: [mkars80] Another new member

> Hi Steve,
>
> Yes, the LED does flicker at about that distance - I am using the modified
> Maplin speaker/mike.
>
> An interesting observation - when I run the transceiver off a stabilised
> mains power supply set to 13.8 v, I notice I get more power (~ 6 Watts) at
> the 3.500 Mhz end of the band, and lower power (~ 4.5 Watts) at 3.800Mhz.
>
> I listened around 3.690 Mhz this morning, there was an ON contest station
> quite close to this frequency and the band near to was crowded with other
> QSO's going on.
>
> Was there any successful MKARS80 net activity today?
>
> I did manage my first QSO with a station in Warrington who gave me 55/56,

> then I worked one of the ON contest stations further up the band - (59 of
> course!).
>
> Duncan G4DFV
>
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.421 / Virus Database: 270.14.9/2427 - Release Date: 10/10/09
06:39:00

[Non-text portions of this message have been removed]

1213. Re: [mkars80] Another new member

Yahoo group: mkars80
Date: 2009-10-11 11:56:28 UTC
From: Steve Drury
Topic: 1198 Message: 1213

Sorry Graham, better luck next week.

Steve

----- Original Message -----
From: "Graham Bloor" <graham.bloor@...>
To: <mkars80@...>
Sent: Sunday, October 11, 2009 12:51 PM
Subject: Re: [mkars80] Another new member

Hi heard you come back to me Steve but that's all I got , no QRM just very weak! down in the noise. Graham G3UD

--- On Sun, 11/10/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Another new member
To: mkars80@...
Date: Sunday, 11 October, 2009, 10:28 AM

Duncan,
See if you can count the turns on the LPF toroids, its easy to add one by mistake!

You can try adjusting the BPF capacitors C54, C68 and C79 whilst monitoring the output - check though that you don't reduce the output at the bottom end.

All we could hear on 3.690MHz was a very strong ON station, I heard G4MDR calling around 3.6885MHz so had quite a long chat down there. G4PQP joined us some time later (QRO, MKARS80 perhaps next week!), G3UD was heard call but I couldn't establish a 2 way contact.....

Steve G6ALU

----- Original Message -----
From: "G4DFV" <g4dfv.electron1@ ntlworld. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Sunday, October 11, 2009 10:30 AM
Subject: Re: [mkars80] Another new member

> Hi Steve,
>
> Yes, the LED does flicker at about that distance - I am using the modified
> Maplin speaker/mike.
>
> An interesting observation - when I run the transceiver off a stabilised
> mains power supply set to 13.8 v, I notice I get more power (~ 6 Watts) at

> the 3.500 Mhz end of the band, and lower power (~ 4.5 Watts) at 3.800Mhz.
>
> I listened around 3.690 Mhz this morning, there was an ON contest station
> quite close to this frequency and the band near to was crowded with other
> QSO's going on.
>
> Was there any successful MKARS80 net activity today?
>
> I did manage my first QSO with a station in Warrington who gave me 55/56,
> then I worked one of the ON contest stations further up the band - (59 of
> course!).
>
> Duncan G4DFV
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.421 / Virus Database: 270.14.9/2427 - Release Date: 10/10/09
06:39:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.421 / Virus Database: 270.14.9/2427 - Release Date: 10/10/09
06:39:00

1214. Driver-output

Yahoo group: mkars80
Date: 2009-10-13 17:44:46 UTC
From: Hasse
Topic: 1214 Message: 1214

I just wonder: what is the output power from q5=ZTX651 into the final
stage IRF510 ?
best 73 de SM6MPA/Hans

1215. Re: [mkars80] Driver-output

Yahoo group: mkars80
Date: 2009-10-13 18:49:02 UTC
From: Steve Drury
Topic: 1214 Message: 1215

Easiest way of finding out is to measure the AC waveform across R1and
calculate it from that.

My notes say about 50mW.

Steve G6ALU

----- Original Message -----
From: "Hasse" <sm6mpa@...>
To: <mkars80@...>
Sent: Tuesday, October 13, 2009 6:44 PM
Subject: [mkars80] Driver-output

>I just wonder: what is the output power from q5=ZTX651 into the final
> stage IRF510 ?
> best 73 de SM6MPA/Hans
>
>
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.421 / Virus Database: 270.14.12/2431 - Release Date: 10/12/09
13:01:00

1216. Alc for MKars80

Yahoo group: mkars80
Date: 2009-10-15 19:18:02 UTC
From: Robert
Topic: 1216 Message: 1216

Steve, any thoughts on an ALC control for the final PA
Bob G8SDU

1217. Re: [mkars80] Alc for MKars80

Yahoo group: mkars80
Date: 2009-10-15 19:29:12 UTC
From: Steve Drury
Topic: 1216 Message: 1217

Hello Robert,

To be honest I didn't think there was a need for one, if you talk just loud enough so the LED flickers on and off distortion should be minimal, what are your thoughts?

Steve G6ALU

----- Original Message -----
From: "Robert" <clayro@...>
To: <mkars80@...>
Sent: Thursday, October 15, 2009 8:18 PM
Subject: [mkars80] Alc for MKars80

> Steve, any thoughts on an ALC control for the final PA
> Bob G8SDU
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.421 / Virus Database: 270.14.19/2438 - Release Date: 10/15/09 12:02:00

1218. My Kit Finished!

Yahoo group: mkars80
Date: 2009-10-16 21:11:32 UTC
From: g4dfv
Topic: 1218 Message: 1218

I have uploaded a photo of my finished MKARS80 kit,
housed in a homemade box, and made sufficiently larger
then the one supplied to enable an internal speaker
to be included.

Duncan G4DFV

1219. Re: [mkars80] My Kit Finished!

Yahoo group: mkars80
Date: 2009-10-17 08:57:24 UTC
From: John Housego
Topic: 1218 Message: 1219

Looks very nice indeed Duncan, nice job.

73 de John (M0TIF)

On Fri, 2009-10-16 at 21:11 +0000, g4dfv wrote:

>
>
> I have uploaded a photo of my finished MKARS80 kit,
> housed in a homemade box, and made sufficiently larger
> then the one supplied to enable an internal speaker
> to be included.
>
> Duncan G4DFV
>
>
>
>
>

[Non-text portions of this message have been removed]

1220. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2009-10-17 20:50:13 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 1220

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /MKARS80 mods by G8EEY/YOGA MIC mods for tune osc.JPG
Uploaded by : panzerbeeb <mike_mobbs@...>
Description : Tune-up osc mods for Yoga mic

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/MKARS80%20mods%20by%20G8EEY/YOGA%20MIC%20mods%20for%20tune%20osc.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

panzerbeeb <mike_mobbs@...>

1221. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2009-10-17 20:51:46 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 1221

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /MKARS80 mods by G8EEY/80m ATU for MKARS80 1.JPG
Uploaded by : panzerbeeb <mike_mobbs@...>
Description : Modified W6JJZ 'BLT' ATU for 80m

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/MKARS80%20mods%20by%20G8EEY/80m%20ATU%20for%20MKARS80%201.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

panzerbeeb <mike_mobbs@...>

1222. Sked on 3.690

Yahoo group: mkars80
Date: 2009-10-18 08:38:18 UTC
From: Steve Drury
Topic: 1222 Message: 1222

Not sure how many people were listening out for us this morning? Unfortunately the QRP frequencies are occupied by several Club / Scout special event stations.... try again next week!

Steve G6ALU

[Non-text portions of this message have been removed]

1223. RE: [mkars80] Sked on 3.690

Yahoo group: mkars80
Date: 2009-10-18 09:16:00 UTC
From: David White
Topic: 1222 Message: 1223

yes steve, the whole band was also wiped out by CQ CONTEST de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Sun, 18 Oct 2009 09:38:18 +0100
Subject: [mkars80] Sked on 3.690

Not sure how many people were listening out for us this morning? Unfortunately the QRP frequencies are occupied by several Club / Scout special event stations.... try again next week!

Steve G6ALU

[Non-text portions of this message have been removed]

Stay in touch with your friends through Messenger on your mobile
http://clk.atdmt.com/UKM/go/174426567/direct/01/

[Non-text portions of this message have been removed]

1224. Re: [mkars80] Sked on 3.690

Yahoo group: mkars80
Date: 2009-10-18 09:45:49 UTC
From: G4DFV
Topic: 1222 Message: 1224

Yes, I tuned around 3.690-ish in vain but I heard nothing only loud JOTA stations, in fact one was more or less bang on 3.690.

The Elecraft net were well in the clear.

A suggestion for future Sundays - (if and when a clear frequency is found) for our MKARS80 net, perhaps it would help others to locate it quicker if the frequency was announced on here at the beginning?

Duncan G4DFV

[Non-text portions of this message have been removed]

1225. Re: [mkars80] Sked on 3.690

Yahoo group: mkars80
Date: 2009-10-18 09:49:48 UTC
From: ALLENCrdr@aol.com
Topic: 1222 Message: 1225

Your right Steve,
I was listening on 3.690mhz this morning,
Good luck to them,will listen for the MKARS group next sunday.

cheers

Allen M1CXK

[Non-text portions of this message have been removed]

1226. Re: [mkars80] Sked on 3.690

Yahoo group: mkars80
Date: 2009-10-18 09:58:58 UTC
From: John Housego
Topic: 1222 Message: 1226

First time I tried the MKARS80 net Steve, like you said there were a lot of special event stations so did not work any MKARS80's but did work a few special events.

Better luck next week.

John (M0TIF)

On Sun, 2009-10-18 at 09:38 +0100, Steve Drury wrote:

>
>
> Not sure how many people were listening out for us this morning?
> Unfortunately the QRP frequencies are occupied by several Club / Scout
> special event stations.... try again next week!
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>
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>

[Non-text portions of this message have been removed]

1227. Morse key

Yahoo group: mkars80
Date: 2009-10-18 13:56:12 UTC
From: m0tif
Topic: 1227 Message: 1227

Hello All,

At the recent UK Hamfest a number of Hams showed interest in the paddle / straight key combination being used with the MKARS CW adaptor on the Radio Kits stand. A few of you correctly identified it as of Spanish origin but having it so long I could not remember where I got it from but today have noticed W&S are selling it on ebay item number 320435893485.

73 de John (M0TIF)

1228. Re: Sked on 3.690

Yahoo group: mkars80
Date: 2009-10-18 16:07:53 UTC
From: g4pqp
Topic: 1222 Message: 1228

Hi Steve . Had a listen this morning but nothing heard . Band very busy with JOTA stations and so on .Have finished my mkars80 board (not boxed)and it seems to be performing well . Have worked a few stations with the board on the bench and have had some nice reports . Looking forward to getting it finished .
73`s all de Phil G4pqp nr Cromer Norfolk .

1229. Re: Sked on 3.690

Yahoo group: mkars80
Date: 2009-10-18 16:16:24 UTC
From: g4pqp
Topic: 1222 Message: 1229

Futher to my last..... I should have said that when the board was bench tested I used piece of aluminium plate as a heat sink for the PA transistor .

1230. RE: [mkars80] Morse key

Yahoo group: mkars80
Date: 2009-10-18 16:46:42 UTC
From: David White
Topic: 1227 Message: 1230

it doesnt say there are only two left, didnt know you had one of those dual morse keys john. £99 would get me a reasonable chinese hand held hehehehehehe de G3ZPA

NNNN

To: mkars80@...
From: John.Housego1@...
Date: Sun, 18 Oct 2009 13:56:12 +0000
Subject: [mkars80] Morse key

Hello All,

At the recent UK Hamfest a number of Hams showed interest in the paddle / straight key combination being used with the MKARS CW adaptor on the Radio Kits stand. A few of you correctly identified it as of Spanish origin but having it so long I could not remember where I got it from but today have noticed W&S are selling it on ebay item number 320435893485.

73 de John (M0TIF)

_____
Use Windows Live Messenger for free on selected mobiles
http://clk.atdmt.com/UKM/go/174426567/direct/01/

[Non-text portions of this message have been removed]

1231. FET Frying

Yahoo group: mkars80
Date: 2009-10-20 10:52:46 UTC
From: g0cvi
Topic: 1231 Message: 1231

Have just built the MKARS80 and CW adaptor, excellent kits. The MKARS80 was only emitting a few tens of milliwats, so I decided to investigate the voltages. When my insulated probe touched the leg of the FET, a fuse blew, and now there is no RF output measurable with my meter. I can still hear the signal on my TenTec Rx, if the MKARS80 module is out of the box (but not if screened off in the box), so it must be something in the final stages. Any ideas?

The voltages on the FET during TX with sidetone modulation are now

Gate: 4V
Drain: 4V
Source: 0V

Storm
G0CVI

1232. ZTX651 becomes very hot

Yahoo group: mkars80
Date: 2009-10-20 12:15:31 UTC
From: Nick Brok
Topic: 1232 Message: 1232

Hello,

Is it normal that this transistor becomes hot?
I had some problems with the power meter and checked my MKARS80 with a scope. During the measurements I burned my finger on this little chap. It's becoming hot while in transmit mode. I read in the data-sheet that it might have an Ic of 2A max and that for such a little transistor!

Greetings,

Nick Brok, de Pe1GOO
--

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

Send instant messages to your online friends http://uk.messenger.yahoo.com

1233. Re: [mkars80] FET Frying

Yahoo group: mkars80
Date: 2009-10-20 12:15:31 UTC
From: g3vfp@blueyonder.co.uk
Topic: 1231 Message: 1233

Yes Storm you have blown your output FET, probably by causing the output
to become unstable when you stuck your test lead on the gate. OOPS :-)

Cheers

Dave G3VFP

> Have just built the MKARS80 and CW adaptor, excellent kits. The MKARS80
> was only emitting a few tens of milliwats, so I decided to investigate the
> voltages. When my insulated probe touched the leg of the FET, a fuse
> blew, and now there is no RF output measurable with my meter. I can still
> hear the signal on my TenTec Rx, if the MKARS80 module is out of the box
> (but not if screened off in the box), so it must be something in the final
> stages. Any ideas?
>
> The voltages on the FET during TX with sidetone modulation are now
>
> Gate: 4V
> Drain: 4V
> Source: 0V
>
> Storm
> G0CVI
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> Yahoo! Groups Links
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1234. Re: [mkars80] FET Frying

Yahoo group: mkars80
Date: 2009-10-20 15:49:18 UTC
From: g6alu@tiscali.co.uk
Topic: 1231 Message: 1234

I will put a new FET and preset resistor in the post, I don't
understand why it only has 4V on the Drain - is the power supply 12V?

Steve G6ALU

>----Original Message----
>From: g3vfp@...
>Date: 20/10/2009 13:15
>To: <mkars80@...>
>Subj: Re: [mkars80] FET Frying
>
>Yes Storm you have blown your output FET, probably by causing the
output
>to become unstable when you stuck your test lead on the gate. OOPS :-
)
>
>Cheers
>
>Dave G3VFP
>
>> Have just built the MKARS80 and CW adaptor, excellent kits. The
MKARS80
>> was only emitting a few tens of milliwats, so I decided to
investigate the
>> voltages. When my insulated probe touched the leg of the FET, a
fuse
>> blew, and now there is no RF output measurable with my meter. I
can still
>> hear the signal on my TenTec Rx, if the MKARS80 module is out of
the box
>> (but not if screened off in the box), so it must be something in
the final
>> stages. Any ideas?
>>
>> The voltages on the FET during TX with sidetone modulation are now
>>
>> Gate: 4V
>> Drain: 4V
>> Source: 0V
>>
>> Storm
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1235. Re: [mkars80] ZTX651 becomes very hot

Yahoo group: mkars80
Date: 2009-10-20 15:51:07 UTC
From: g6alu@tiscali.co.uk
Topic: 1232 Message: 1235

Hi Nick,

Yes they all get hot! Its running near its maximum dissipation but
don't worry - it will survive!

Steve G6ALU

>----Original Message----
>From: pe1goo@...
>Date: 20/10/2009 13:15
>To: <mkars80@...>
>Subj: [mkars80] ZTX651 becomes very hot
>
>Hello,
>
>Is it normal that this transistor becomes hot?
>I had some problems with the power meter and checked my MKARS80 with
a scope. During the measurements I burned my finger on this little
chap. It's becoming hot while in transmit mode. I read in the data-
sheet that it might have an Ic of 2A max and that for such a little
transistor!
>
>Greetings,
>
>Nick Brok, de Pe1GOO
>--
>
>Berliozlaan 1 NL5654 SM Eindhoven Netherlands
>
>Send instant messages to your online friends http://uk.messenger.
yahoo.com
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>Yahoo! Groups Links
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1236. Re: FET Frying

Yahoo group: mkars80
Date: 2009-10-20 20:44:21 UTC
From: g0cvi
Topic: 1231 Message: 1236

Thanks for that Steve, that will be very helpful.

I have remeasured the voltages:
When I ground the -ve electrode against the chasis, and use the +ve electrode on the transistor leads I get:
G= 1.4V
D= 2V
S= 0V

When I hold the +ve electrode to the +ve supply and use the -ve electrode on the transistor leads I get
G= 14V (which is the voltage of my PSU)
D= 5.5V
S= 14V

The PD from G to D is 1.2 Volts

All values during tx with a sidetone modulation. Not sure if that makes any more sense?

Thanks

Storm

--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:
>
> I will put a new FET and preset resistor in the post, I don't
> understand why it only has 4V on the Drain - is the power supply 12V?
>
> Steve G6ALU
>
> >----Original Message----
> >From: g3vfp@...
> >Date: 20/10/2009 13:15
> >To: <mkars80@...>
> >Subj: Re: [mkars80] FET Frying
> >
> >Yes Storm you have blown your output FET, probably by causing the
> output
> >to become unstable when you stuck your test lead on the gate. OOPS :-
>)
> >
> >Cheers
> >
> >Dave G3VFP
> >
> >> Have just built the MKARS80 and CW adaptor, excellent kits. The
> MKARS80

> >> was only emitting a few tens of milliwats, so I decided to
> investigate the
> >> voltages. When my insulated probe touched the leg of the FET, a
> fuse
> >> blew, and now there is no RF output measurable with my meter. I
> can still
> >> hear the signal on my TenTec Rx, if the MKARS80 module is out of
> the box
> >> (but not if screened off in the box), so it must be something in
> the final
> >> stages. Any ideas?
> >>
> >> The voltages on the FET during TX with sidetone modulation are now
> >>
> >> Gate: 4V
> >> Drain: 4V
> >> Source: 0V
> >>
> >> Storm
> >> G0CVI
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> Get 50% off Norton Security- http://www.tiscali.co.uk/securepc
>

1237. Re: [mkars80] Re: FET Frying

Yahoo group: mkars80
Date: 2009-10-20 20:49:00 UTC
From: Steve Drury
Topic: 1231 Message: 1237

Storm,

Drain should be 12V relative to ground, check your transformer is wound OK.
I suspect your original problem (low output) is most likely due to a poor
connection on one of the mixer transformers, was the receiver deaf as well?

Regards,
Steve G6ALU

----- Original Message -----
From: "g0cvi" <g0cvi@...>
To: <mkars80@...>
Sent: Tuesday, October 20, 2009 9:44 PM
Subject: [mkars80] Re: FET Frying

> Thanks for that Steve, that will be very helpful.
>
> I have remeasured the voltages:
> When I ground the -ve electrode against the chasis, and use the +ve
> electrode on the transistor leads I get:
> G= 1.4V
> D= 2V
> S= 0V
>
> When I hold the +ve electrode to the +ve supply and use the -ve electrode
> on the transistor leads I get
> G= 14V (which is the voltage of my PSU)
> D= 5.5V
> S= 14V
>
> The PD from G to D is 1.2 Volts
>
> All values during tx with a sidetone modulation. Not sure if that makes
> any more sense?
>
> Thanks
>
> Storm
>
>
> --- In mkars80@..., "g6alu@..." <g6alu@...> wrote:
>>
>> I will put a new FET and preset resistor in the post, I don't
>> understand why it only has 4V on the Drain - is the power supply 12V?
>>
>> Steve G6ALU

>>
>> >----Original Message----
>> >From: g3vfp@...
>> >Date: 20/10/2009 13:15
>> >To: <mkars80@...>
>> >Subj: Re: [mkars80] FET Frying
>> >
>> >Yes Storm you have blown your output FET, probably by causing the
>> output
>> >to become unstable when you stuck your test lead on the gate. OOPS :-
>>)
>> >
>> >Cheers
>> >
>> >Dave G3VFP
>> >
>> >> Have just built the MKARS80 and CW adaptor, excellent kits. The
>> MKARS80
>> >> was only emitting a few tens of milliwats, so I decided to
>> investigate the
>> >> voltages. When my insulated probe touched the leg of the FET, a
>> fuse
>> >> blew, and now there is no RF output measurable with my meter. I
>> can still
>> >> hear the signal on my TenTec Rx, if the MKARS80 module is out of
>> the box
>> >> (but not if screened off in the box), so it must be something in
>> the final
>> >> stages. Any ideas?
>> >>
>> >> The voltages on the FET during TX with sidetone modulation are now
>> >>
>> >> Gate: 4V
>> >> Drain: 4V
>> >> Source: 0V
>> >>
>> >> Storm
>> >> G0CVI
>> >>
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>> >> ------------------------------------
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>> >> Yahoo! Groups Links
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>> >Yahoo! Groups Links
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>>
>> Get 50% off Norton Security- http://www.tiscali.co.uk/securepc
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> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.23/2448 - Release Date: 10/20/09
10:43:00

1238. Re: FET Frying

Yahoo group: mkars80
Date: 2009-10-20 22:27:37 UTC
From: g0cvi
Topic: 1231 Message: 1238

T2 has a dry connection, will resolder it tomorrow and hopefully get the right voltage.

Thanks

Storm

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Storm,
>
> Drain should be 12V relative to ground, check your transformer is wound OK.
> I suspect your original problem (low output) is most likely due to a poor
> connection on one of the mixer transformers, was the receiver deaf as well?
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "g0cvi" <g0cvi@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Tuesday, October 20, 2009 9:44 PM
> Subject: [mkars80] Re: FET Frying
>
>
> > Thanks for that Steve, that will be very helpful.
> >
> > I have remeasured the voltages:
> > When I ground the -ve electrode against the chasis, and use the +ve
> > electrode on the transistor leads I get:
> > G= 1.4V
> > D= 2V
> > S= 0V
> >
> > When I hold the +ve electrode to the +ve supply and use the -ve electrode
> > on the transistor leads I get
> > G= 14V (which is the voltage of my PSU)
> > D= 5.5V
> > S= 14V
> >
> > The PD from G to D is 1.2 Volts
> >
> > All values during tx with a sidetone modulation. Not sure if that makes
> > any more sense?
> >
> > Thanks
> >

> > Storm
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "g6alu@" <g6alu@> wrote:
> >>
> >> I will put a new FET and preset resistor in the post, I don't
> >> understand why it only has 4V on the Drain - is the power supply 12V?
> >>
> >> Steve G6ALU
> >>
> >> >----Original Message----
> >> >From: g3vfp@
> >> >Date: 20/10/2009 13:15
> >> >To: <mkars80@...>
> >> >Subj: Re: [mkars80] FET Frying
> >> >
> >> >Yes Storm you have blown your output FET, probably by causing the
> >> output
> >> >to become unstable when you stuck your test lead on the gate. OOPS :-
> >>)
> >> >
> >> >Cheers
> >> >
> >> >Dave G3VFP
> >> >
> >> >> Have just built the MKARS80 and CW adaptor, excellent kits. The
> >> MKARS80
> >> >> was only emitting a few tens of milliwats, so I decided to
> >> investigate the
> >> >> voltages. When my insulated probe touched the leg of the FET, a
> >> fuse
> >> >> blew, and now there is no RF output measurable with my meter. I
> >> can still
> >> >> hear the signal on my TenTec Rx, if the MKARS80 module is out of
> >> the box
> >> >> (but not if screened off in the box), so it must be something in
> >> the final
> >> >> stages. Any ideas?
> >> >>
> >> >> The voltages on the FET during TX with sidetone modulation are now
> >> >>
> >> >> Gate: 4V
> >> >> Drain: 4V
> >> >> Source: 0V
> >> >>
> >> >> Storm
> >> >> G0CVI
> >> >>
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> >> >Yahoo! Groups Links
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> >> Get 50% off Norton Security- http://www.tiscali.co.uk/securepc
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> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.23/2448 - Release Date: 10/20/09
> 10:43:00
>

1239. Re: [mkars80] ZTX651 becomes very hot

Yahoo group: mkars80
Date: 2009-10-21 04:24:11 UTC
From: Nick Brok
Topic: 1232 Message: 1239

Thanks Steve.

Now I know it's normal that it becomes hot. No reason to worry.
So I can warn a friend of mine (PH7W) ;-) He's nearly ready with building the mkars80.
Don't touch that little transistor when operating the transmitter!

Greetings,

Nick Brok, de Pe1GOO

--

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

--- On Tue, 10/20/09, g6alu@... <g6alu@...> wrote:

From: g6alu@... <g6alu@...>
Subject: Re: [mkars80] ZTX651 becomes very hot
To: mkars80@...
Date: Tuesday, October 20, 2009, 5:51 PM

Hi Nick,

Yes they all get hot! Its running near its maximum dissipation but

don't worry - it will survive!

Steve G6ALU

.

Send instant messages to your online friends http://uk.messenger.yahoo.com

[Non-text portions of this message have been removed]

1240. Tune-up Modification

Yahoo group: mkars80
Date: 2009-10-21 20:52:59 UTC
From: g4dfv
Topic: 1240 Message: 1240

I have done a modification to my MKARS80 transceiver to add a tune-up facility.
A photo of the circuit has been uploaded to my G4DFV album.
The modification involves the addition of a simple sine-wave generator based on the Twin-T oscillator circuit, the output of which feeds into the microphone input.
The single-transistor oscillator runs at around 650Hz, actual frequency is dependent on component tolerances, but isn't too crucial.
Output level is controlled by a preset pot.
A 3-pole changeover toggle switch is used to bring the circuit into play and to change from normal operation to tune. A suitable switch is the Maplin FH08J (Actually a 4-pole, but works OK if a 3-pole is not to hand).
The prototype unit was built on a small piece of 0.1 inch grid Veroboard,fastened to the inside of the case using a double sided sticky pad.
Microphone signals are routed using single-core screened cable (RG174 coax is OK).
Setting up is quite straightforward.
Firstly, turn the preset pot on the oscillator fully anti-clockwise.
Put the transceiver on a dummy load/power meter, supply DC power, then switch to "tune".
Adjust the oscillator output level with the preset pot for maximum output, then back it off to about 75%.
Always remember to keep tuning periods limited to a just a few seconds at a time, with pauses in between.

Duncan G4DFV

1241. Buggalo - a tiny CW unit

Yahoo group: mkars80
Date: 2009-10-23 14:15:25 UTC
From: sm0kbw
Topic: 1241 Message: 1241

Hello!

I have constructed a CW-unit / Bugg based on the 12F675.

The 12F675 only draws a fraction of a milliampere. So with a little modification to your MKARS80 it can be feed by the microphone bias.

It's tiny, only around 4 x 4 cm PCB. If you want to construct a surface mount PCB it could be even smaller.

It can be used as a audio keyer, just to plug it in to your MKARS80 and begin send CQ ;)

The file Buggalo_03.zip is placed in the folder named Buggalo and containes all info you need to make your own.

The project is released as a GPL project.

73 de
SM0KBW / Bengt

1242. Today's sked

Yahoo group: mkars80
Date: 2009-10-25 10:59:29 UTC
From: Steve Drury
Topic: 991 Message: 1242

Good band conditions allowed for a pleasant MKARS80 net this morning, stations fully Q5 with me were:

G8JWT Roger - Stoke Goldington
G0WKN Ken - South Lincolnshire
G4MDR Alan - Newport Pagnel
G4DFV Duncan - Mansfield
G4PQP Phil - Cromer
G1IVC Colin - Market Harborough

There was a station calling in at the end, sorry we were unable to get the call sign - the band was just starting to get noisy. We will try again next week 3.690MHz @ 9:30 UTC

Steve G6ALU

[Non-text portions of this message have been removed]

1243. Re: [mkars80] Today's sked

Yahoo group: mkars80
Date: 2009-10-25 12:08:55 UTC
From: G4DFV
Topic: 991 Message: 1243

Thanks for running the net Steve.
I was really struggling to hear most stations through the very high noise level my end.
At times when the slow QSB lifted, the clearest was Phil G4PQP in Cromer.
Eventually the noise floor was so high, it obliterated all stations on the net.
Due to noise I always find 80m a major struggle, particularly during the morning.

Duncan G4DFV

[Non-text portions of this message have been removed]

1244. Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-25 18:46:53 UTC
From: pa0rcl
Topic: 1198 Message: 1244

Hi all,

I solved the tune up control issue with just one capacitor, a push button switch and two short pieces of wire. Two .pdf files containing the details can be found in the "files" section, under "tune up control".

73 Ron

1245. Re: [mkars80] Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-25 19:17:03 UTC
From: Steve Drury
Topic: 1198 Message: 1245

Hi Ron, without looking I can guess what you've done!

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <ronvingerling@...>
To: <mkars80@...>
Sent: Sunday, October 25, 2009 6:46 PM
Subject: [mkars80] Tune-Up Control

> Hi all,
>
> I solved the tune up control issue with just one capacitor, a push button
> switch and two short pieces of wire. Two .pdf files containing the details
> can be found in the "files" section, under "tune up control".
>
> 73 Ron
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09
14:31:00

1246. Re: Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-25 19:48:09 UTC
From: g3oth
Topic: 1198 Message: 1246

Hi Ron
Thanks for sharing this mod.
You can't do it much simpler than that.
Wonder if Steve's guess was correct, and whether he approves.
I can't see much wrong with your suggestion, if phase and amplitude of feedback is ok, presumably the result is a nice sine wave. The only thing I would like to know is whether or not audio overdrive to TX presents any problem. Otherwise I might give it a go here.
73 de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Hi Ron, without looking I can guess what you've done!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pa0rcl" <ronvingerling@...>
> To: <mkars80@...>
> Sent: Sunday, October 25, 2009 6:46 PM
> Subject: [mkars80] Tune-Up Control
>
>
> > Hi all,
> >
> > I solved the tune up control issue with just one capacitor, a push button
> > switch and two short pieces of wire. Two .pdf files containing the details
> > can be found in the "files" section, under "tune up control".
> >
> > 73 Ron
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09
> 14:31:00
>

1247. Re: [mkars80] Re: Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-25 19:58:20 UTC
From: Steve Drury
Topic: 1198 Message: 1247

No I guessed wrong!

I thought he was unbalancing the carrier insertion mixer.... looks OK as long as the TX isn't too far overdriven and causes splatter - I guess it doesn't matter for a few seconds though.

Steve

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, October 25, 2009 7:48 PM
Subject: [mkars80] Re: Tune-Up Control

>
>
> Hi Ron
> Thanks for sharing this mod.
> You can't do it much simpler than that.
> Wonder if Steve's guess was correct, and whether he approves.
> I can't see much wrong with your suggestion, if phase and amplitude of
> feedback is ok, presumably the result is a nice sine wave. The only thing
> I would like to know is whether or not audio overdrive to TX presents any
> problem. Otherwise I might give it a go here.
> 73 de Charles G3OTH
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hi Ron, without looking I can guess what you've done!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "pa0rcl" <ronvingerling@...>
>> To: <mkars80@...>
>> Sent: Sunday, October 25, 2009 6:46 PM
>> Subject: [mkars80] Tune-Up Control
>>
>>
>> > Hi all,
>> >
>> > I solved the tune up control issue with just one capacitor, a push
>> > button
>> > switch and two short pieces of wire. Two .pdf files containing the

>> > details
>> > can be found in the "files" section, under "tune up control".
>> >
>> > 73 Ron
>> >
>> >
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
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>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
>> 10/24/09
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> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09
14:31:00

1248. Re: Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-25 20:21:09 UTC
From: g6ivp
Topic: 1198 Message: 1248

Hi Steve,

In your opinion, is there anything wrong with unbalancing the carrier insertion mixer?

73, John G6IVP

--- In mkars80@....uk, "Steve Drury" <g6alu@...> wrote:
>
> No I guessed wrong!
>
> I thought he was unbalancing the carrier insertion mixer.... looks OK as
> long as the TX isn't too far overdriven and causes splatter - I guess it
> doesn't matter for a few seconds though.
>
> Steve
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Sunday, October 25, 2009 7:48 PM
> Subject: [mkars80] Re: Tune-Up Control
>
>
> >
> >
> > Hi Ron
> > Thanks for sharing this mod.
> > You can't do it much simpler than that.
> > Wonder if Steve's guess was correct, and whether he approves.
> > I can't see much wrong with your suggestion, if phase and amplitude of
> > feedback is ok, presumably the result is a nice sine wave. The only thing
> > I would like to know is whether or not audio overdrive to TX presents any
> > problem. Otherwise I might give it a go here.
> > 73 de Charles G3OTH
> >
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Hi Ron, without looking I can guess what you've done!
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "pa0rcl" <ronvingerling@>
> >> To: <mkars80@....uk>

> >> Sent: Sunday, October 25, 2009 6:46 PM
> >> Subject: [mkars80] Tune-Up Control
> >>
> >>
> >> > Hi all,
> >> >
> >> > I solved the tune up control issue with just one capacitor, a push
> >> > button
> >> > switch and two short pieces of wire. Two .pdf files containing the
> >> > details
> >> > can be found in the "files" section, under "tune up control".
> >> >
> >> > 73 Ron
> >> >
> >> >
> >> >
> >> >
> >> > ------------------------------------
> >> >
> >> > Yahoo! Groups Links
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> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09
> 14:31:00
>

1249. Re: [mkars80] Re: Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-25 20:22:07 UTC
From: Steve Drury
Topic: 1198 Message: 1249

I'm not sure it would work as the crystal filter is likely to filter most of the carrier out. Give it a try and let us know!

Steve

----- Original Message -----
From: "g6ivp" <johng6ivp@...>
To: <mkars80@...>
Sent: Sunday, October 25, 2009 8:21 PM
Subject: [mkars80] Re: Tune-Up Control

>
>
>
> Hi Steve,
>
> In your opinion, is there anything wrong with unbalancing the carrier
> insertion mixer?
>
> 73, John G6IVP
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> No I guessed wrong!
>>
>> I thought he was unbalancing the carrier insertion mixer.... looks OK as
>> long as the TX isn't too far overdriven and causes splatter - I guess it
>> doesn't matter for a few seconds though.
>>
>> Steve
>>
>> ----- Original Message -----
>> From: "g3oth" <g3oth@...>
>> To: <mkars80@...>
>> Sent: Sunday, October 25, 2009 7:48 PM
>> Subject: [mkars80] Re: Tune-Up Control
>>
>>
>> >
>> >
>> > Hi Ron
>> > Thanks for sharing this mod.
>> > You can't do it much simpler than that.
>> > Wonder if Steve's guess was correct, and whether he approves.
>> > I can't see much wrong with your suggestion, if phase and amplitude of
>> > feedback is ok, presumably the result is a nice sine wave. The only

>> > thing
>> > I would like to know is whether or not audio overdrive to TX presents
>> > any
>> > problem. Otherwise I might give it a go here.
>> > 73 de Charles G3OTH
>> >
>> >
>> >
>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >>
>> >> Hi Ron, without looking I can guess what you've done!
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: "pa0rcl" <ronvingerling@>
>> >> To: <mkars80@...>
>> >> Sent: Sunday, October 25, 2009 6:46 PM
>> >> Subject: [mkars80] Tune-Up Control
>> >>
>> >>
>> >> > Hi all,
>> >> >
>> >> > I solved the tune up control issue with just one capacitor, a push
>> >> > button
>> >> > switch and two short pieces of wire. Two .pdf files containing the
>> >> > details
>> >> > can be found in the "files" section, under "tune up control".
>> >> >
>> >> > 73 Ron
>> >> >
>> >> >
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>> >> >
>> >> > ------------------------------------
>> >> >
>> >> > Yahoo! Groups Links
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>> >>
>> >>
>> >> No virus found in this incoming message.
>> >> Checked by AVG - www.avg.com
>> >> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
>> >> 10/24/09

>> >> 14:31:00
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>> > ------------------------------------
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>>
>> No virus found in this incoming message.
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>> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
>> 10/24/09
>> 14:31:00
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>
> Yahoo! Groups Links
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>

1250. Re: Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-25 20:44:43 UTC
From: g6ivp
Topic: 1198 Message: 1250

Hi again Steve

Oops! I should have known better. I see now that there is likely to be enough attenuation that it might not be any good for tune up. Too little power. Best to keep it within the passband of the crystal filter.

73, John G6IVP

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I'm not sure it would work as the crystal filter is likely to filter most of
> the carrier out. Give it a try and let us know!
>
> Steve
>
> ----- Original Message -----
> From: "g6ivp" <johng6ivp@...>
> To: <mkars80@...>
> Sent: Sunday, October 25, 2009 8:21 PM
> Subject: [mkars80] Re: Tune-Up Control
>
>
> >
> > >
> > >
> > > Hi Steve,
> > >
> > > In your opinion, is there anything wrong with unbalancing the carrier
> > > insertion mixer?
> > >
> > > 73, John G6IVP
> > >
> > > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> > >>
> > >> No I guessed wrong!
> > >>
> > >> I thought he was unbalancing the carrier insertion mixer.... looks OK as
> > >> long as the TX isn't too far overdriven and causes splatter - I guess it
> > >> doesn't matter for a few seconds though.
> > >>
> > >> Steve
> > >>
> > >> ----- Original Message -----
> > >> From: "g3oth" <g3oth@>
> > >> To: <mkars80@...>
> > >> Sent: Sunday, October 25, 2009 7:48 PM

> >> Subject: [mkars80] Re: Tune-Up Control
> >>
> >>
> >> >
> >> >
> >> > Hi Ron
> >> > Thanks for sharing this mod.
> >> > You can't do it much simpler than that.
> >> > Wonder if Steve's guess was correct, and whether he approves.
> >> > I can't see much wrong with your suggestion, if phase and amplitude of
> >> > feedback is ok, presumably the result is a nice sine wave. The only
> >> > thing
> >> > I would like to know is whether or not audio overdrive to TX presents
> >> > any
> >> > problem. Otherwise I might give it a go here.
> >> > 73 de Charles G3OTH
> >> >
> >> >
> >> >
> >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >> >>
> >> >> Hi Ron, without looking I can guess what you've done!
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "pa0rcl" <ronvingerling@>
> >> >> To: <mkars80@...>
> >> >> Sent: Sunday, October 25, 2009 6:46 PM
> >> >> Subject: [mkars80] Tune-Up Control
> >> >>
> >> >>
> >> >> > Hi all,
> >> >> >
> >> >> > I solved the tune up control issue with just one capacitor, a push
> >> >> > button
> >> >> > switch and two short pieces of wire. Two .pdf files containing the
> >> >> > details
> >> >> > can be found in the "files" section, under "tune up control".
> >> >> >
> >> >> > 73 Ron
> >> >> >
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> >> >> > Yahoo! Groups Links
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> >> >> ---
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> >> >>
> >> >> No virus found in this incoming message.
> >> >> Checked by AVG - www.avg.com
> >> >> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
> >> >> 10/24/09
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> >> > Yahoo! Groups Links
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> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
> >> 10/24/09
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
>

1251. Re: [mkars80] Re: Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-25 22:06:31 UTC
From: Ron Vingerling
Topic: 1198 Message: 1251

Hi Steve et al,

I use an automatic antenna tuner that needs only a few watts during a few seconds to find a match. Therefore, I did not bother too much about the purity of this modulation and overdriving the PA. The splatter issue, if thee is one, should not be too big with only five watts PEP. This method is not much worse than a strong whistle in the mike, I thought. I listened to my own signal on another receiver whilst tuning up and it seemed allright.

BTW, is the any news about an MKARS40?

73 Ron pa0rcl

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Sunday, 25 October, 2009 20:58:20
Subject: Re: [mkars80] Re: Tune-Up Control

No I guessed wrong!

I thought he was unbalancing the carrier insertion mixer.... looks OK as
long as the TX isn't too far overdriven and causes splatter - I guess it
doesn't matter for a few seconds though.

Steve

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Sunday, October 25, 2009 7:48 PM
Subject: [mkars80] Re: Tune-Up Control

>
>
> Hi Ron
> Thanks for sharing this mod.
> You can't do it much simpler than that.
> Wonder if Steve's guess was correct, and whether he approves.
> I can't see much wrong with your suggestion, if phase and amplitude of
> feedback is ok, presumably the result is a nice sine wave. The only thing
> I would like to know is whether or not audio overdrive to TX presents any
> problem. Otherwise I might give it a go here.
> 73 de Charles G3OTH
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:

>>
>> Hi Ron, without looking I can guess what you've done!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "pa0rcl" <ronvingerling@...>
>> To: <mkars80@...>
>> Sent: Sunday, October 25, 2009 6:46 PM
>> Subject: [mkars80] Tune-Up Control
>>
>>
>> > Hi all,
>> >
>> > I solved the tune up control issue with just one capacitor, a push
>> > button
>> > switch and two short pieces of wire. Two .pdf files containing the
>> > details
>> > can be found in the "files" section, under "tune up control".
>> >
>> > 73 Ron
>> >
>> >
>> >
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>> > ------------------------------------
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>> > Yahoo! Groups Links
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>> No virus found in this incoming message.
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>> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09
14:31:00

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1252. Re: FET Frying

Yahoo group: mkars80
Date: 2009-10-26 12:28:48 UTC
From: g0cvi
Topic: 1231 Message: 1252

Thanks for the new FET Steve. Have rewound and replaced T2, the FET and the preset. The RX is much more sensitive now and the FET actually gets hot on TX (the old one didn't). It is drawing around 120mA RX, 300mA TX with R2 set fully anticlockwise and adjusted to 350mA. On TX with the sidetone from the CW adaptor it draws between 600 - 850mA. I can hear the signal OK in my TenTec RX. It still does not register much on my power meter, but I am beginning to suspect the meter itself, as it was very cheap and behaves quite strangely.

Thanks again

Storm

1253. Re: [mkars80] Re: FET Frying

Yahoo group: mkars80
Date: 2009-10-26 13:28:49 UTC
From: g6alu@tiscali.co.uk
Topic: 1231 Message: 1253

Storm,

I would expect to see over 1 Amp when whistleing into the microphone,
I think you still have a small problem somewhere.

Steve G6ALU

>----Original Message----
>From: g0cvi@...
>Date: 26/10/2009 12:28
>To: <mkars80@...>
>Subj: [mkars80] Re: FET Frying
>
>Thanks for the new FET Steve. Have rewound and replaced T2, the FET
and the preset. The RX is much more sensitive now and the FET actually
gets hot on TX (the old one didn't). It is drawing around 120mA RX,
300mA TX with R2 set fully anticlockwise and adjusted to 350mA. On TX
with the sidetone from the CW adaptor it draws between 600 - 850mA. I
can hear the signal OK in my TenTec RX. It still does not register
much on my power meter, but I am beginning to suspect the meter itself,
as it was very cheap and behaves quite strangely.
>
>Thanks again
>
>Storm
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
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>

Recycle mobile phones and earn - http://www.tiscali.co.uk/recycle

1254. MKARS80 just completed

Yahoo group: mkars80
Date: 2009-10-26 20:46:53 UTC
From: m5zzr@btinternet.com
Topic: 1254 Message: 1254

Hi group.
This is my first post (second attempt though).

I have just completed my kit. I chose to build mine in a larger Eddystone case. I used an SO-239 socket for the antenna output, connected to the PCB with 3cm solid copper wire. I used a standard Fosters 8 pin microphone input socket wired as in Icom transceivers. The wires from the PCB to the microphone socket have been wrapped around a ferrite core situated close to the PCB. The wires to the speaker socket are also wrapped around a ferrite core.

Initial tests seemed positive. The BFO was adjusted at C38 for a frequency of 10.000MHz. The PA bias was adjusted for a 50mA rise on key down, no mod. Final current 315mA. On checking the mixer balance there appeared to be almost no output power on key down with no mod into a 2 watt meter and dummy load. Adjustments to R59 and C103 seemed to have little or no effect. This didn't bother me at this stage as the apparent objective was to zero the output. I have so far tested the transceiver with a number of Icom electret microphones and a dynamic microphone with a DC blocking capacitor installed. Acceptable output power is achieved into a watt meter around 5 watts on a whistle. The receive is very sensitive and on frequency. Transmit audio is apparent on the speaker. Audio into the microphone even comes over the speaker when the PTT is not engaged, albeit to a greatly reduced extent. I have tried calling a number of stations and, so far, not been heard. I have even run the transceiver through a linear producing 150 watts - still no contacts yet. When monitoring my transmit audio on a second receiver, the audio quality is very poor. A whistle sounds like a whistle with a pea in it.

Does anyone have any ideas? They would be very much appreciated.
Thanks. Mel. M5ZZR.

1255. Re: [mkars80] MKARS80 just completed

Yahoo group: mkars80
Date: 2009-10-26 20:58:20 UTC
From: Steve Drury
Topic: 1254 Message: 1255

Mel,

When you transmit does the LED go out completely, not at all or does it flicker? Working correctly it should flicker off as you speak.

Steve G6ALU

----- Original Message -----
From: <m5zzr@...>
To: <mkars80@...>
Sent: Monday, October 26, 2009 8:46 PM
Subject: [mkars80] MKARS80 just completed

> Hi group.
> This is my first post (second attempt though).
>
> I have just completed my kit. I chose to build mine in a larger Eddystone
> case. I used an SO-239 socket for the antenna output, connected to the
> PCB with 3cm solid copper wire. I used a standard Fosters 8 pin
> microphone input socket wired as in Icom transceivers. The wires from the
> PCB to the microphone socket have been wrapped around a ferrite core
> situated close to the PCB. The wires to the speaker socket are also
> wrapped around a ferrite core.
>
> Initial tests seemed positive. The BFO was adjusted at C38 for a
> frequency of 10.000MHz. The PA bias was adjusted for a 50mA rise on key
> down, no mod. Final current 315mA. On checking the mixer balance there
> appeared to be almost no output power on key down with no mod into a 2
> watt meter and dummy load. Adjustments to R59 and C103 seemed to have
> little or no effect. This didn't bother me at this stage as the apparent
> objective was to zero the output. I have so far tested the transceiver
> with a number of Icom electret microphones and a dynamic microphone with a
> DC blocking capacitor installed. Acceptable output power is achieved into
> a watt meter around 5 watts on a whistle. The receive is very sensitive
> and on frequency. Transmit audio is apparent on the speaker. Audio into
> the microphone even comes over the speaker when the PTT is not engaged,
> albeit to a greatly reduced extent. I have tried calling a number of
> stations and, so far, not been heard. I have even run the
> transceiver through a linear producing 150 watts - still no contacts yet.
> When monitoring my transmit audio on a second receiver, the audio quality
> is very poor. A whistle sounds like a whistle with a pea in it.
>
> Does anyone have any ideas? They would be very much appreciated.
> Thanks. Mel. M5ZZR.
>
>

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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.32/2460 - Release Date: 10/26/09
08:10:00

1256. Re: [mkars80] Re: Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-26 21:01:38 UTC
From: Steve Drury
Topic: 1198 Message: 1256

Evening Ron,
I'm OK with your tune up method, I too whistle loudly so probably just as bad as an oscillator!

I didn't do any more with the MKARS40, it receives well and transmits a clean enough signal but I couldn't easily get rid of the thump through the speaker between TX / RX transitions. The thump was due to increasing the audio gain and using an AF gain control.

Steve G6ALU

----- Original Message -----
From: "Ron Vingerling" <ronvingerling@...>
To: <mkars80@...>
Sent: Sunday, October 25, 2009 10:06 PM
Subject: Re: [mkars80] Re: Tune-Up Control

> Hi Steve et al,
>
> I use an automatic antenna tuner that needs only a few watts during a few
> seconds to find a match. Therefore, I did not bother too much about the
> purity of this modulation and overdriving the PA. The splatter issue, if
> thee is one, should not be too big with only five watts PEP. This method
> is not much worse than a strong whistle in the mike, I thought. I listened
> to my own signal on another receiver whilst tuning up and it seemed
> allright.
>
> BTW, is the any news about an MKARS40?
>
> 73 Ron pa0rcl
>
>
>
>
> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Sunday, 25 October, 2009 20:58:20
> Subject: Re: [mkars80] Re: Tune-Up Control
>
> No I guessed wrong!
>
> I thought he was unbalancing the carrier insertion mixer.... looks OK as
> long as the TX isn't too far overdriven and causes splatter - I guess it
> doesn't matter for a few seconds though.
>

> Steve
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Sunday, October 25, 2009 7:48 PM
> Subject: [mkars80] Re: Tune-Up Control
>
>
>>
>>
>> Hi Ron
>> Thanks for sharing this mod.
>> You can't do it much simpler than that.
>> Wonder if Steve's guess was correct, and whether he approves.
>> I can't see much wrong with your suggestion, if phase and amplitude of
>> feedback is ok, presumably the result is a nice sine wave. The only thing
>> I would like to know is whether or not audio overdrive to TX presents any
>> problem. Otherwise I might give it a go here.
>> 73 de Charles G3OTH
>>
>>
>>
>> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>>
>>> Hi Ron, without looking I can guess what you've done!
>>>
>>> Steve G6ALU
>>>
>>> ----- Original Message -----
>>> From: "pa0rcl" <ronvingerling@...>
>>> To: <mkars80@...>
>>> Sent: Sunday, October 25, 2009 6:46 PM
>>> Subject: [mkars80] Tune-Up Control
>>>
>>>
>>> > Hi all,
>>> >
>>> > I solved the tune up control issue with just one capacitor, a push
>>> > button
>>> > switch and two short pieces of wire. Two .pdf files containing the
>>> > details
>>> > can be found in the "files" section, under "tune up control".
>>> >
>>> > 73 Ron
>>> >
>>> >
>>> >
>>> >
>>> > ------------------------------------

>>> >
>>> > Yahoo! Groups Links
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>>>
>>> No virus found in this incoming message.
>>> Checked by AVG - www.avg.com
>>> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
>>> 10/24/09
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>> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09
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> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09
14:31:00

1257. Re: MKARS80 just completed

Yahoo group: mkars80
Date: 2009-10-26 21:45:13 UTC
From: m5zzr@btinternet.com
Topic: 1254 Message: 1257

Hi Steve.
Thanks for the quick response. First the good news. I've just managed 2 QSOs R3 & S7 in cambridge and again in the Isle of Mann, from Kent, that's barefoot. So we are working. Regarding the modulation LED, I can just get it to flicker if I really shout, is that good enough? Thanks again. Mel. M5ZZR.

1258. Re: [mkars80] Re: MKARS80 just completed

Yahoo group: mkars80
Date: 2009-10-26 22:07:57 UTC
From: Steve Drury
Topic: 1254 Message: 1258

Mel,

You have a problem! The LED will normally flicker off with normal speech 3 - 9" from the microphone. First suggestion is to check that all the transformer windings (those wound on the two hole ferrites) are properly soldered, the most common failing is that the enamel on one of these thin wires hasn't soldered through - use a hot iron.

Best of luck.

Steve G6ALU

----- Original Message -----
From: <m5zzr@...>
To: <mkars80@...>
Sent: Monday, October 26, 2009 9:45 PM
Subject: [mkars80] Re: MKARS80 just completed

> Hi Steve.
> Thanks for the quick response. First the good news. I've just managed 2
> QSOs R3 & S7 in cambridge and again in the Isle of Mann, from Kent, that's
> barefoot. So we are working. Regarding the modulation LED, I can just
> get it to flicker if I really shout, is that good enough? Thanks again.
> Mel. M5ZZR.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.32/2460 - Release Date: 10/26/09 08:10:00

1259. Re: MKARS80 just completed

Yahoo group: mkars80
Date: 2009-10-26 22:31:05 UTC
From: m5zzr@btinternet.com
Topic: 1254 Message: 1259

Steve.
Thanks for the terrific support. I will check them out. Thanks for a wonderful kit by the way. It was great fun building it and a real kick to make the first QSO with it. Mel. M5ZZR.

1260. Re: MKARS80 just completed

Yahoo group: mkars80
Date: 2009-10-27 00:42:16 UTC
From: m5zzr@btinternet.com
Topic: 1254 Message: 1260

Steve,

Brilliant! I went around all the inductors and transformers with the soldering iron and there was no change at first so I turned the iron up to 480c and gave them all a good bubble. The LED sprung to life and I got through terrible QRN on my first call to manchester at R4 S4 with good audio reports.

When setting up the mixer balance I just get a quick jump of a few milliwatts at key down, I've set it at what appears to be the smallest jump but adjustment doesn't seem to make a lot of difference in this respect. While monitoring on another receiver I've adjusted R59 C103 for what appears to be the best audio although it's not easy on a nearby receiver. However the audio report was 'good if a little toppy'. I'm happy with that for now. This radio is great fun. Thanks.
Mel. M5ZZR.

1261. Re: Tune-Up Control

Yahoo group: mkars80
Date: 2009-10-28 17:17:09 UTC
From: pa0rcl
Topic: 1198 Message: 1261

Fine Steve, I am glad you approve of this method. Meanwhile, I have looked at the wave form produced by this oscillator. It is kind of sawtooth-shaped. Speaking of signal purity, hi. I started using it during an experiment when I was too lazy to build a proper RC sinewave oscillator and almost had sore lips from extended whistling.

I do hope you will find the time to pursue the MKARS40. From what I read in your message I get he impression that the job is almost finished. Maybe you could post your mods some time?

73 Ron pa0rcl

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Evening Ron,
> I'm OK with your tune up method, I too whistle loudly so probably just as
> bad as an oscillator!
>
> I didn't do any more with the MKARS40, it receives well and transmits a
> clean enough signal but I couldn't easily get rid of the thump through the
> speaker between TX / RX transitions. The thump was due to increasing the
> audio gain and using an AF gain control.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Ron Vingerling" <ronvingerling@...>
> To: <mkars80@....uk>
> Sent: Sunday, October 25, 2009 10:06 PM
> Subject: Re: [mkars80] Re: Tune-Up Control
>
>
> > Hi Steve et al,
> >
> > I use an automatic antenna tuner that needs only a few watts during a few
> > seconds to find a match. Therefore, I did not bother too much about the
> > purity of this modulation and overdriving the PA. The splatter issue, if
> > thee is one, should not be too big with only five watts PEP. This method
> > is not much worse than a strong whistle in the mike, I thought. I listened
> > to my own signal on another receiver whilst tuning up and it seemed
> > allright.
> >
> > BTW, is the any news about an MKARS40?
> >
> > 73 Ron pa0rcl
> >
> >

> >
> >
> > _____
> > From: Steve Drury <g6alu@...>
> > To: mkars80@...
> > Sent: Sunday, 25 October, 2009 20:58:20
> > Subject: Re: [mkars80] Re: Tune-Up Control
> >
> > No I guessed wrong!
> >
> > I thought he was unbalancing the carrier insertion mixer.... looks OK as
> > long as the TX isn't too far overdriven and causes splatter - I guess it
> > doesn't matter for a few seconds though.
> >
> > Steve
> >
> > ----- Original Message -----
> > From: "g3oth" <g3oth@...>
> > To: <mkars80@...>
> > Sent: Sunday, October 25, 2009 7:48 PM
> > Subject: [mkars80] Re: Tune-Up Control
> >
> >
> >>
> >>
> >> Hi Ron
> >> Thanks for sharing this mod.
> >> You can't do it much simpler than that.
> >> Wonder if Steve's guess was correct, and whether he approves.
> >> I can't see much wrong with your suggestion, if phase and amplitude of
> >> feedback is ok, presumably the result is a nice sine wave. The only thing
> >> I would like to know is whether or not audio overdrive to TX presents any
> >> problem. Otherwise I might give it a go here.
> >> 73 de Charles G3OTH
> >>
> >>
> >>
> >> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>>
> >>> Hi Ron, without looking I can guess what you've done!
> >>>
> >>> Steve G6ALU
> >>>
> >>> ----- Original Message -----
> >>> From: "pa0rcl" <ronvingerling@>
> >>> To: <mkars80@...>
> >>> Sent: Sunday, October 25, 2009 6:46 PM
> >>> Subject: [mkars80] Tune-Up Control
> >>>
> >>>

> >>> > Hi all,
> >>> >
> >>> > I solved the tune up control issue with just one capacitor, a push
> >>> > button
> >>> > switch and two short pieces of wire. Two .pdf files containing the
> >>> > details
> >>> > can be found in the "files" section, under "tune up control".
> >>> >
> >>> > 73 Ron
> >>> >
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> >>> > Yahoo! Groups Links
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> >>> No virus found in this incoming message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date:
> >>> 10/24/09
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> >> Yahoo! Groups Links
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> > > No virus found in this incoming message.
> > > Checked by AVG - www.avg.com
> > > Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09

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> > Yahoo! Groups Links
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> > Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.31/2457 - Release Date: 10/24/09
> 14:31:00
>

1262. MKARS 40?

Yahoo group: mkars80
Date: 2009-10-28 23:13:19 UTC
From: jonpoint@ymail.com
Topic: 1262 Message: 1262

Hi All,

Just assembling a kit right now (in a somewhat altered form with a steel transport case + battery + antenna tuner). I discussed with Steve Drury the concept of a 40m version but he said there were 'issues'.

I have heard some comments regarding this but can someone bring me up to date on this please? I am happy to contribute in any way I can.

I have nothing against the 80m version, and have built a homebrew portable TRX for 160 & 80 in the past, but here in Australia, 40m offers a wider operating window, with 80m only really useful at night - and that's with no storms around! The S9+ lightning crashes on 80 (&160) often preclude any communications, whereas on 40m they are more tolerable.

As I want to use the MKARS radio when camping, 40m would allow daytime operation ;-)

Jon Point
VK2JDP

1263. UPDATE

Yahoo group: mkars80
Date: 2009-10-29 00:15:02 UTC
From: m5zzr@btinternet.com
Topic: 1263 Message: 1263

I've had a good few QSOs now - all daytime UK stations so far. Reports have all been good with comments like 'it sounds like an ordinary black box transceiver'. Microphone is an Icom HM-103. Mel. M5ZZR.

1264. Re: [mkars80] UPDATE

Yahoo group: mkars80
Date: 2009-10-29 17:28:53 UTC
From: ALLENCrdr@aol.com
Topic: 1263 Message: 1264

Well done Mel, radio's working fine and the audio sounded good here in Dartford.When i worked you recently on my MKARS 80
Good luck will listen out for you on the band.

73
Allen M1CX

[Non-text portions of this message have been removed]

1265. Re: [mkars80] UPDATE

Yahoo group: mkars80
Date: 2009-10-29 21:55:00 UTC
From: Steve Drury
Topic: 1263 Message: 1265

That makes you grin doesn't it... the guy at the other end is probably using >?1K worth of commercial radio and doesn't have a clue how it works! You have built your own for a fraction of the price and it does the same job, what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@...>
To: <mkars80@...>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
> box transceiver'. Microphone is an Icom HM-103. Mel. M5ZZR.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09 09:34:00

1266. Re: [mkars80] UPDATE

Yahoo group: mkars80
Date: 2009-10-29 22:02:02 UTC
From: John Housego
Topic: 1263 Message: 1266

Very true Steve, I have that same grin with every MKARS80 QSO, all 227
so far! So I'm a happy chappy :)

John (M0TIF)

On Thu, 2009-10-29 at 21:55 +0000, Steve Drury wrote:

>
>
> That makes you grin doesn't it... the guy at the other end is probably
> using
> >£1K worth of commercial radio and doesn't have a clue how it works!
> You
> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
>
> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
> black
> > box transceiver'. Microphone is an Icom HM-103. Mel. M5ZZR.
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> 10/28/09

> 09:34:00
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[Non-text portions of this message have been removed]

1267. Re: UPDATE & sound quality

Yahoo group: mkars80
Date: 2009-10-30 03:43:28 UTC
From: jonpoint@ymail.com
Topic: 1263 Message: 1267

In reality, the MKARS80 would be capable of <better> audio than many transceivers. The reason is simple - there is little processing, and with good mike procedure and a quiet shack, the sound will be more open and clearer.

The MKARS80 could benefit from a small amount of compression, to lift the average voice level a bit. 6dB of compression is almost an S-point, give or take a bit ;-)

For my 2p worth, I am investigating an ALC cicuit, driven from the "mod" LED, to attenuate the mike's output. The control element in mind is quite non-linear above 60mV, so we cannot attenuate the preamp output without distortion :-(

I will need to play with the timing, but it looks OK - I just have to adapt the idea to the cicuit without complicating things too much.

The same concept <could> work for receiver AGC. Again, the trick is to get the timing right, so as not to make the operation too noticeable. After all, this is the beauty of simple equipment - clarity ;-)

More on this when I get a bit further.

BTW, the kit went together like a charm and, apart from 2 missed solder joints, seems to work on recieve quite well. I'll post my findings as I obtain them!

Regards,

Jon Point
VK2JDP

--- In mkars80@..., John Housego <John.Housego1@...> wrote:
>
> Very true Steve, I have that same grin with every MKARS80 QSO, all 227
> so far! So I'm a happy chappy :)
>
> John (M0TIF)
>
> On Thu, 2009-10-29 at 21:55 +0000, Steve Drury wrote:
>
> > >
> > >
> > > That makes you grin doesn't it... the guy at the other end is probably
> > > using
> > > >Â£1K worth of commercial radio and doesn't have a clue how it works!
> > > You
> > > have built your own for a fraction of the price and it does the same
> > > job,
> > > what's more you have a good chance of repairing it should it go wrong.
> > >

> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@...>
> > To: <mkars80@...>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE
> >
> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > box transceiver'. Microphone is an Icom HM-103. Mel. M5ZZR.
> > >
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> > >
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> > > Yahoo! Groups Links
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> > >
> > > No virus found in this incoming message.
> > > Checked by AVG - www.avg.com
> > > Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> > > 10/28/09
> > > 09:34:00
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> > >
>
> [Non-text portions of this message have been removed]
>

1268. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-03 11:53:17 UTC
From: DAVID CLENCH
Topic: 1263 Message: 1268

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is now history. However when refitting the board to the case I noticed that the solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using
>£1K worth of commercial radio and doesn't have a clue how it works! You
have built your own for a fraction of the price and it does the same job,
what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
> box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09
09:34:00

[Non-text portions of this message have been removed]

1269. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-03 20:08:31 UTC
From: Steve Drury
Topic: 1263 Message: 1269

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was the track broken to the transistor legs or perhaps the transistor legs themselves have broken. Inspect it carefully, if you need a new transistor please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is now history. However when refitting the board to the case I noticed that the solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using >?1K worth of commercial radio and doesn't have a clue how it works! You have built your own for a fraction of the price and it does the same job, what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
> box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09
09:34:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date: 11/02/09
07:51:00

1270. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-03 20:50:44 UTC
From: DAVID CLENCH
Topic: 1263 Message: 1270

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably when I removed the pcb from the case.
Thanks for your promp and helpful advice.

Regards

Dave G0BVV

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was the track broken to the transistor legs or perhaps the transistor legs themselves have broken. Inspect it carefully, if you need a new transistor please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is now history. However when refitting the board to the case I noticed that the solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Thursday, 29 October, 2009 21:55:00

Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using
>£1K worth of commercial radio and doesn't have a clue how it works! You
have built your own for a fraction of the price and it does the same job,
what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
> box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09
09:34:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date: 11/02/09
07:51:00

[Non-text portions of this message have been removed]

1271. Mike sensitivity

Yahoo group: mkars80
Date: 2009-11-03 21:06:11 UTC
From: g3gja.g8eqz
Topic: 1271 Message: 1271

Hi Steve

I use a Sigma CMH50 headphone / boom microphone intended for computers with the MKARS80 and I find I need to nearly swllow the foam blob surrounding the electret element to get the LED to extinguish. I've tried a couple of different electret mike with little improvement.

Can you give me an idea of what pk-pk audio level I should expect on the emmitter of Q4 to cause the LED to go out please? That might give me an idea as whether I have a lot of low output mikes, low gain mike amp or low gain tx chain. Ido get 5w PEP with a loud whistle and it draws about 1.3A max.

Having said that I worked a GI, 2 x GM, 2 x ON, 1 x DL and 1 x PA in the CQWW SSB contest weekend before last from Sherwood Forest using a 10m vertical!

73

Clive G3GJA / G8EQZ

1272. Re: [mkars80] Mike sensitivity

Yahoo group: mkars80
Date: 2009-11-03 21:24:08 UTC
From: Steve Drury
Topic: 1271 Message: 1272

Clive,

I've never measured it but I often have complaints that the microphone amplifier is too sensitive!

That answer sounded like I didn't care so I've measured it - on my MKARS80 to make the LED flicker off requires about 0.5-1V P-P at the emitter of Q4.

If the level is similar when speaking normally please check the soldering of all the transformers!!

Steve G6ALU

----- Original Message -----
From: "g3gja.g8eqz" <clive@...>
To: <mkars80@...>
Sent: Tuesday, November 03, 2009 9:06 PM
Subject: [mkars80] Mike sensitivity

> Hi Steve
>
> I use a Sigma CMH50 headphone / boom microphone intended for computers
> with the MKARS80 and I find I need to nearly swllow the foam blob
> surrounding the electret element to get the LED to extinguish. I've tried
> a couple of different electret mike with little improvement.
>
> Can you give me an idea of what pk-pk audio level I should expect on the
> emmitter of Q4 to cause the LED to go out please? That might give me an
> idea as whether I have a lot of low output mikes, low gain mike amp or low
> gain tx chain. Ido get 5w PEP with a loud whistle and it draws about 1.3A
> max.
>
> Having said that I worked a GI, 2 x GM, 2 x ON, 1 x DL and 1 x PA in the
> CQWW SSB contest weekend before last from Sherwood Forest using a 10m
> vertical!
>
> 73
>
> Clive G3GJA / G8EQZ
>
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>
> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

1273. Re: Mike sensitivity

Yahoo group: mkars80
Date: 2009-11-03 22:12:38 UTC
From: g3gja.g8eqz
Topic: 1271 Message: 1273

Thanks for taking the time to measure your rig Steve; it's helped me loads; I put a 1kHz tone into my unit and increased the level until the supply current stopped increasing at 1.3A and then backed it off a little so that the LED was just illuminating which was at 1.2A.

I then measured the pk-pk level of the tone on Q4's emitter and got 240mV.

So it looks as though the TX chain is OK and I'm now looking at the mike amp (the circuit should have a gain of 6x from Q2 base to Q4 emitter)and the possibility I've got a load of duff mikes!

Thanks for your help

Clive G3GJA

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Clive,
>
> I've never measured it but I often have complaints that the microphone
> amplifier is too sensitive!
>
> That answer sounded like I didn't care so I've measured it - on my MKARS80
> to make the LED flicker off requires about 0.5-1V P-P at the emitter of Q4.
>
> If the level is similar when speaking normally please check the soldering of
> all the transformers!!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3gja.g8eqz" <clive@...>
> To: <mkars80@...>
> Sent: Tuesday, November 03, 2009 9:06 PM
> Subject: [mkars80] Mike sensitivity
>
>
> > Hi Steve
> >
> > I use a Sigma CMH50 headphone / boom microphone intended for computers
> > with the MKARS80 and I find I need to nearly swllow the foam blob
> > surrounding the electret element to get the LED to extinguish. I've tried
> > a couple of different electret mike with little improvement.
> >
> > Can you give me an idea of what pk-pk audio level I should expect on the
> > emmitter of Q4 to cause the LED to go out please? That might give me an

> > idea as whether I have a lot of low output mikes, low gain mike amp or low
> > gain tx chain. Ido get 5w PEP with a loud whistle and it draws about 1.3A
> > max.
> >
> > Having said that I worked a GI, 2 x GM, 2 x ON, 1 x DL and 1 x PA in the
> > CQWW SSB contest weekend before last from Sherwood Forest using a 10m
> > vertical!
> >
> > 73
> >
> > Clive G3GJA / G8EQZ
> >
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
> 07:36:00
>

1274. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-03 22:18:03 UTC
From: Steve Drury
Topic: 1263 Message: 1274

David,

Please confirm you need a new transistor.

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Tuesday, November 03, 2009 8:50 PM
Subject: Re: [mkars80] problem

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably
when I removed the pcb from the case.
Thanks for your promp and helpful advice.

Regards

Dave G0BVV

_____
From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was
the track broken to the transistor legs or perhaps the transistor legs
themselves have broken. Inspect it carefully, if you need a new transistor
please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is
now history. However when refitting the board to the case I noticed that the

solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using >?1K worth of commercial radio and doesn't have a clue how it works! You have built your own for a fraction of the price and it does the same job, what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
> box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09 09:34:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date: 11/02/09
07:51:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

1275. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-03 22:37:59 UTC
From: DAVID CLENCH
Topic: 1263 Message: 1275

Steve

No I repaired the leg of the device. It's now back in its box and been on air this evening. I hope to be on the net on Sunday if it is on.

Thanks again

Dave G0BVV

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Tuesday, 3 November, 2009 22:18:03
Subject: Re: [mkars80] problem

David,

Please confirm you need a new transistor.

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, November 03, 2009 8:50 PM
Subject: Re: [mkars80] problem

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably when I removed the pcb from the case.
Thanks for your promp and helpful advice.

Regards

Dave G0BVV

From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was the track broken to the transistor legs or perhaps the transistor legs themselves have broken. Inspect it carefully, if you need a new transistor please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is now history. However when refitting the board to the case I noticed that the solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using >£1K worth of commercial radio and doesn't have a clue how it works! You have built your own for a fraction of the price and it does the same job, what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
> box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> Yahoo! Groups Links
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No virus found in this incoming message.
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[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date: 11/02/09
07:51:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

[Non-text portions of this message have been removed]

1276. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-06 16:03:32 UTC
From: Steve Drury
Topic: 1263 Message: 1276

Hello David,

We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't been pinched by the other nets!

I will be up early on Sunday so if any one wants to try earlier (7:30 UTC onwards) please let me know. We had quite a few on last week's net but all sufered from QRM.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Tuesday, November 03, 2009 10:37 PM
Subject: Re: [mkars80] problem

Steve

No I repaired the leg of the device. It's now back in its box and been on air this evening. I hope to be on the net on Sunday if it is on.

Thanks again

Dave G0BVV

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Tuesday, 3 November, 2009 22:18:03
Subject: Re: [mkars80] problem

David,

Please confirm you need a new transistor.

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, November 03, 2009 8:50 PM
Subject: Re: [mkars80] problem

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably when I removed the pcb from the case.

Thanks for your promp and helpful advice.

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was the track broken to the transistor legs or perhaps the transistor legs themselves have broken. Inspect it carefully, if you need a new transistor please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is now history. However when refitting the board to the case I noticed that the solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using >?1K worth of commercial radio and doesn't have a clue how it works! You have built your own for a fraction of the price and it does the same job, what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
> box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09
09:34:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date: 11/02/09
07:51:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

1277. RE: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-06 16:28:24 UTC
From: David White
Topic: 1263 Message: 1277

a good way of dealing with it steve is to have someone with a linear as net controller or starting early so as to safeguard the frequency from strong interlopers. de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Fri, 6 Nov 2009 16:03:32 +0000
Subject: Re: [mkars80] problem

Hello David,

We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't been pinched by the other nets!

I will be up early on Sunday so if any one wants to try earlier (7:30 UTC onwards) please let me know. We had quite a few on last week's net but all sufered from QRM.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Tuesday, November 03, 2009 10:37 PM
Subject: Re: [mkars80] problem

Steve

No I repaired the leg of the device. It's now back in its box and been on air this evening. I hope to be on the net on Sunday if it is on.

Thanks again

Dave G0BVV

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Tuesday, 3 November, 2009 22:18:03
Subject: Re: [mkars80] problem

David,

Please confirm you need a new transistor.

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, November 03, 2009 8:50 PM
Subject: Re: [mkars80] problem

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably when I removed the pcb from the case.
Thanks for your promp and helpful advice.

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was the track broken to the transistor legs or perhaps the transistor legs themselves have broken. Inspect it carefully, if you need a new transistor please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is now history. However when refitting the board to the case I noticed that the solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using
>?1K worth of commercial radio and doesn't have a clue how it works! You
have built your own for a fraction of the price and it does the same job,
what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
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No virus found in this incoming message.
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[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date: 11/02/09
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[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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Yahoo! Groups Links

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Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
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_____
New Windows 7: Find the right PC for you. Learn more.
http://www.microsoft.com/uk/windows/buy/

[Non-text portions of this message have been removed]

1278. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-06 16:32:33 UTC
From: Steve Drury
Topic: 1263 Message: 1278

I could do that David, the problem last week was those 2 KHz off frequency - they don't recognise 3.690 as a QRP frequency.

Steve

----- Original Message -----
From: "David White" <davidwhite400@...>
To: <mkars80@...>
Sent: Friday, November 06, 2009 4:28 PM
Subject: RE: [mkars80] problem

a good way of dealing with it steve is to have someone with a linear as net controller or starting early so as to safeguard the frequency from strong interlopers. de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Fri, 6 Nov 2009 16:03:32 +0000
Subject: Re: [mkars80] problem

Hello David,

We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't been pinched by the other nets!

I will be up early on Sunday so if any one wants to try earlier (7:30 UTC onwards) please let me know. We had quite a few on last week's net but all sufered from QRM.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Tuesday, November 03, 2009 10:37 PM
Subject: Re: [mkars80] problem

Steve

No I repaired the leg of the device. It's now back in its box and been on air this evening. I hope to be on the net on Sunday if it is on.

Thanks again

Dave G0BVV

_____
From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Tuesday, 3 November, 2009 22:18:03
Subject: Re: [mkars80] problem

David,

Please confirm you need a new transistor.

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, November 03, 2009 8:50 PM
Subject: Re: [mkars80] problem

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably
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Thanks for your promp and helpful advice.

Regards

Dave G0BVV

_____ _____ _____ __
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was
the track broken to the transistor legs or perhaps the transistor legs
themselves have broken. Inspect it carefully, if you need a new transistor
please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is
now history. However when refitting the board to the case I noticed that the
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Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using >?1K worth of commercial radio and doesn't have a clue how it works! You have built your own for a fraction of the price and it does the same job, what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

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Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09 09:34:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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Yahoo! Groups Links

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

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Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
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New Windows 7: Find the right PC for you. Learn more.
http://www.microsoft.com/uk/windows/buy/

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.52/2484 - Release Date: 11/06/09
07:38:00

1279. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-06 16:38:34 UTC
From: G4DFV
Topic: 1263 Message: 1279

80m tends to be a struggle receiving low power transmissions in the morning, particularly at my end as I suffer from quite high noise levels.
What about having the net in the late afternoon/early evening instead, when propagation is usually better?

Duncan G4DFV

1280. RE: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-06 16:40:22 UTC
From: David White
Topic: 1263 Message: 1280

ok steve but if i overdrive my old rig i cause splatter to nearby stations and they move away a bit hehehehehehe de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Fri, 6 Nov 2009 16:32:33 +0000
Subject: Re: [mkars80] problem

I could do that David, the problem last week was those 2 KHz off frequency - they don't recognise 3.690 as a QRP frequency.

Steve

----- Original Message -----
From: "David White" <davidwhite400@...>
To: <mkars80@...>
Sent: Friday, November 06, 2009 4:28 PM
Subject: RE: [mkars80] problem

a good way of dealing with it steve is to have someone with a linear as net controller or starting early so as to safeguard the frequency from strong interlopers. de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Fri, 6 Nov 2009 16:03:32 +0000
Subject: Re: [mkars80] problem

Hello David,

We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't been pinched by the other nets!

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Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@btinternet.com>
To: <mkars80@...>
Sent: Tuesday, November 03, 2009 10:37 PM

Subject: Re: [mkars80] problem

Steve

No I repaired the leg of the device. It's now back in its box and been on air this evening. I hope to be on the net on Sunday if it is on.

Thanks again

Dave G0BVV

From: Steve Drury <g6alu@...>
To: mkars80@yahoogroups.co.uk
Sent: Tuesday, 3 November, 2009 22:18:03
Subject: Re: [mkars80] problem

David,

Please confirm you need a new transistor.

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, November 03, 2009 8:50 PM
Subject: Re: [mkars80] problem

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably when I removed the pcb from the case.
Thanks for your promp and helpful advice.

Regards

Dave G0BVV

From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was the track broken to the transistor legs or perhaps the transistor legs themselves have broken. Inspect it carefully, if you need a new transistor please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

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Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using >?1K worth of commercial radio and doesn't have a clue how it works! You have built your own for a fraction of the price and it does the same job, what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

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Yahoo! Groups Links

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Yahoo! Groups Links

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New Windows 7: Find the right PC for you. Learn more.
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

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New Windows 7: Find the right PC for you. Learn more.
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[Non-text portions of this message have been removed]

1281. MKARS80 DX-ing

Yahoo group: mkars80
Date: 2009-11-06 19:47:51 UTC
From: pa0rcl
Topic: 1281 Message: 1281

Hi all,

Tonight I made a short QSO with OX3KQ on 3799.5 using one of my MKARS80's at 10 Watts output power. My antenna was a horizontal deltaloop at 8m height and 60 m in circumference. I was given a report of 58!Distance spanned was about 2500 kilometers and OX3KQ used 1 kW and a full size vertical. This was real fun, working Greenland with not even 100 Pounds worth of equipment against many thousands!
Are there similar stories from any of us?

73 and good DX

Ron pa0rcl

1282. Re: [mkars80] MKARS80 DX-ing

Yahoo group: mkars80
Date: 2009-11-06 21:08:49 UTC
From: Steve Drury
Topic: 1281 Message: 1282

Well done Ron, your signals went over my head... ! This is a very serious amateur, not many people have antennae like his, who says verticals don't work!

See http://www.qrz.com/callsign?callsign=OX3KQ

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <ronvingerling@...>
To: <mkars80@...>
Sent: Friday, November 06, 2009 7:47 PM
Subject: [mkars80] MKARS80 DX-ing

> Hi all,
>
> Tonight I made a short QSO with OX3KQ on 3799.5 using one of my MKARS80's
> at 10 Watts output power. My antenna was a horizontal deltaloop at 8m
> height and 60 m in circumference. I was given a report of 58!Distance
> spanned was about 2500 kilometers and OX3KQ used 1 kW and a full size
> vertical. This was real fun, working Greenland with not even 100 Pounds
> worth of equipment against many thousands!
> Are there similar stories from any of us?
>
> 73 and good DX
>
> Ron pa0rcl
>
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> Yahoo! Groups Links
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>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.52/2484 - Release Date: 11/06/09 07:38:00

1283. Re: MKARS80 DX-ing

Yahoo group: mkars80
Date: 2009-11-06 21:29:09 UTC
From: mark
Topic: 1281 Message: 1283

Hi Ron well done on your contact the furthest one i have has was with 5 watts I spoke to yl2gb 1910km the antenna is a inverted L
Mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Well done Ron, your signals went over my head... ! This is a very serious
> amateur, not many people have antennae like his, who says verticals don't
> work!
>
> See http://www.qrz.com/callsign?callsign=OX3KQ
>
> Steve G6ALU
>
>
> ----- Original Message -----
> From: "pa0rcl" <ronvingerling@...>
> To: <mkars80@...>
> Sent: Friday, November 06, 2009 7:47 PM
> Subject: [mkars80] MKARS80 DX-ing
>
>
> > Hi all,
> >
> > Tonight I made a short QSO with OX3KQ on 3799.5 using one of my MKARS80's
> > at 10 Watts output power. My antenna was a horizontal deltaloop at 8m
> > height and 60 m in circumference. I was given a report of 58!Distance
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> 07:38:00
>

1284. Re: [mkars80] MKARS80 DX-ing

Yahoo group: mkars80
Date: 2009-11-06 22:05:55 UTC
From: Ron Vingerling
Topic: 1281 Message: 1284

Thanks, Steve but the flowers should go to the MKARS80. BTW I made a typing error; distance was not 2500km but 3500.

73 Ron pa0rcl

_____
From: Steve Drury <g6alu@...>
To: mkars80@yahoogroups.co.uk
Sent: Fri, 6 November, 2009 22:08:49
Subject: Re: [mkars80] MKARS80 DX-ing

Well done Ron, your signals went over my head... ! This is a very serious amateur, not many people have antennae like his, who says verticals don't work!

See http://www.qrz.com/callsign?callsign=OX3KQ

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <ronvingerling@ymail.com>
To: <mkars80@...>
Sent: Friday, November 06, 2009 7:47 PM
Subject: [mkars80] MKARS80 DX-ing

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Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.52/2484 - Release Date: 11/06/09
07:38:00

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1285. Re: [mkars80] MKARS80 DX-ing

Yahoo group: mkars80
Date: 2009-11-06 22:17:05 UTC
From: Steve Drury
Topic: 1281 Message: 1285

Even better! I know there have been a few transatlantic contacts but I'm not sure who between.

Steve

----- Original Message -----
From: "Ron Vingerling" <ronvingerling@...>
To: <mkars80@...>
Sent: Friday, November 06, 2009 10:05 PM
Subject: Re: [mkars80] MKARS80 DX-ing

Thanks, Steve but the flowers should go to the MKARS80. BTW I made a typing error; distance was not 2500km but 3500.

73 Ron pa0rcl

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Fri, 6 November, 2009 22:08:49
Subject: Re: [mkars80] MKARS80 DX-ing

Well done Ron, your signals went over my head... ! This is a very serious amateur, not many people have antennae like his, who says verticals don't work!

See http://www.qrz.com/callsign?callsign=OX3KQ

Steve G6ALU

----- Original Message -----
From: "pa0rcl" <ronvingerling@...>
To: <mkars80@...>
Sent: Friday, November 06, 2009 7:47 PM
Subject: [mkars80] MKARS80 DX-ing

> Hi all,
>
> Tonight I made a short QSO with OX3KQ on 3799.5 using one of my MKARS80's
> at 10 Watts output power. My antenna was a horizontal deltaloop at 8m
> height and 60 m in circumference. I was given a report of 58!Distance
> spanned was about 2500 kilometers and OX3KQ used 1 kW and a full size
> vertical. This was real fun, working Greenland with not even 100 Pounds
> worth of equipment against many thousands!
> Are there similar stories from any of us?
>
> 73 and good DX

>
> Ron pa0rcl
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.52/2484 - Release Date: 11/06/09
07:38:00

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.52/2484 - Release Date: 11/06/09
07:38:00

1286. Re: [mkars80] problem

Yahoo group: mkars80
Date: 2009-11-06 23:42:42 UTC
From: DAVID CLENCH
Topic: 1263 Message: 1286

Hi Steve,

I am flexible regarding time of net on Sunday. I think 07.30 is a good time but will go with the flow.

Dave G0BVV

From: Steve Drury <g6alu@...>
To: mkars80@yahoogroups.co.uk
Sent: Friday, 6 November, 2009 16:03:32
Subject: Re: [mkars80] problem

Hello David,

We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't been pinched by the other nets!

I will be up early on Sunday so if any one wants to try earlier (7:30 UTC onwards) please let me know. We had quite a few on last week's net but all sufered from QRM.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, November 03, 2009 10:37 PM
Subject: Re: [mkars80] problem

Steve

No I repaired the leg of the device. It's now back in its box and been on air this evening. I hope to be on the net on Sunday if it is on.

Thanks again

Dave G0BVV

From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 22:18:03
Subject: Re: [mkars80] problem

David,

Please confirm you need a new transistor.

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 8:50 PM
Subject: Re: [mkars80] problem

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably when I removed the pcb from the case.
Thanks for your promp and helpful advice.

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was the track broken to the transistor legs or perhaps the transistor legs themselves have broken. Inspect it carefully, if you need a new transistor please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is now history. However when refitting the board to the case I noticed that the solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk

Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using
>£1K worth of commercial radio and doesn't have a clue how it works! You
have built your own for a fraction of the price and it does the same job,
what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
> have all been good with comments like 'it sounds like an ordinary black
> box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
>
>
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09
09:34:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date: 11/02/09
07:51:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

[Non-text portions of this message have been removed]

1287. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-07 21:41:37 UTC
From: DAVID CLENCH
Topic: 1263 Message: 1287

Hi All
Can I assume the net will be at 09:30 tomorrow morning? I am happy to be around at 07:30 but will have a lie in if it's 09:30.

Dave G0BVV

From: DAVID CLENCH <david.clench@btinternet.com>
To: mkars80@...
Sent: Friday, 6 November, 2009 23:42:42
Subject: Re: [mkars80] problem

Hi Steve,

I am flexible regarding time of net on Sunday. I think 07.30 is a good time but will go with the flow.

Dave G0BVV

From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Friday, 6 November, 2009 16:03:32
Subject: Re: [mkars80] problem

Hello David,

We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't been pinched by the other nets!

I will be up early on Sunday so if any one wants to try earlier (7:30 UTC onwards) please let me know. We had quite a few on last week's net but all sufered from QRM.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 10:37 PM
Subject: Re: [mkars80] problem

Steve

No I repaired the leg of the device. It's now back in its box and been on air this evening. I hope to be on the net on Sunday if it is on.

Thanks again

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 22:18:03
Subject: Re: [mkars80] problem

David,

Please confirm you need a new transistor.

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 8:50 PM
Subject: Re: [mkars80] problem

Hi Steve

On closer inspection I found one of the legs of Q1 had fractured, probably
when I removed the pcb from the case.
Thanks for your promp and helpful advice.

Regards

Dave G0BVV

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From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Tuesday, 3 November, 2009 20:08:31
Subject: Re: [mkars80] problem

Dave,

Not too sure if re-soldering caused the problem, when you say "loose" was
the track broken to the transistor legs or perhaps the transistor legs
themselves have broken. Inspect it carefully, if you need a new transistor
please email me your address and I will put one in the post.

Regards,
Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@ btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Tuesday, November 03, 2009 11:53 AM
Subject: Re: [mkars80] problem

Hi Steve

I have just fitted the mod caps you kindly sent me and the drift problem is now history. However when refitting the board to the case I noticed that the solder joints to Q1 were loose and so I reflowed them using a larger iron. Now when I transmit the led stays on, I can hear my voice in the speaker and there is no rf output. The voltages on Q1 measure ok. Have I damaged Q1?

Regards

Dave G0BVV

---------- --------- --------- --
From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Thursday, 29 October, 2009 21:55:00
Subject: Re: [mkars80] UPDATE

That makes you grin doesn't it... the guy at the other end is probably using >£1K worth of commercial radio and doesn't have a clue how it works! You have built your own for a fraction of the price and it does the same job, what's more you have a good chance of repairing it should it go wrong.

Steve G6ALU

----- Original Message -----
From: <m5zzr@btinternet. com>
To: <mkars80@yahoogroup s .co.uk>
Sent: Thursday, October 29, 2009 12:15 AM
Subject: [mkars80] UPDATE

> I've had a good few QSOs now - all daytime UK stations so far. Reports
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>
> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date: 10/28/09 09:34:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date: 11/02/09
07:51:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date: 11/03/09
07:36:00

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1288. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-07 21:51:05 UTC
From: John Housego
Topic: 1263 Message: 1288

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
>
> Dave G0BVV
>
> _____
> From: DAVID CLENCH <david.clench@btinternet.com>
> To: mkars80@...
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
>
> Hi Steve,
>
> I am flexible regarding time of net on Sunday. I think 07.30 is a good
> time but will go with the flow.
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
> Subject: Re: [mkars80] problem
>
> Hello David,
>
> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> been
> pinched by the other nets!
>
> I will be up early on Sunday so if any one wants to try earlier (7:30
> UTC
> onwards) please let me know. We had quite a few on last week's net but
> all
> sufered from QRM.

>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 10:37 PM
> Subject: Re: [mkars80] problem
>
> Steve
>
> No I repaired the leg of the device. It's now back in its box and been
> on
> air this evening. I hope to be on the net on Sunday if it is on.
>
> Thanks again
>
> Dave G0BVV
>
> ---------- --------- --------- --
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 22:18:03
> Subject: Re: [mkars80] problem
>
> David,
>
> Please confirm you need a new transistor.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 8:50 PM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> On closer inspection I found one of the legs of Q1 had fractured,
> probably
> when I removed the pcb from the case.
> Thanks for your promp and helpful advice.
>
> Regards
>
> Dave G0BVV
>
> ---------- --------- --------- --

> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 20:08:31
> Subject: Re: [mkars80] problem
>
> Dave,
>
> Not too sure if re-soldering caused the problem, when you say "loose"
> was
> the track broken to the transistor legs or perhaps the transistor legs
> themselves have broken. Inspect it carefully, if you need a new
> transistor
> please email me your address and I will put one in the post.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 11:53 AM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> I have just fitted the mod caps you kindly sent me and the drift
> problem is
> now history. However when refitting the board to the case I noticed
> that the
> solder joints to Q1 were loose and so I reflowed them using a larger
> iron.
> Now when I transmit the led stays on, I can hear my voice in the
> speaker and
> there is no rf output. The voltages on Q1 measure ok. Have I damaged
> Q1?
>
> Regards
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
>
> That makes you grin doesn't it... the guy at the other end is probably
> using
> >£1K worth of commercial radio and doesn't have a clue how it works!
> You

> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
>
> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
> black
> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> > Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> 10/28/09
> 09:34:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> 11/02/09
> 07:51:00
>
> [Non-text portions of this message have been removed]

>
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> Yahoo! Groups Links
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> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
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> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
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>
>
>
>

[Non-text portions of this message have been removed]

1289. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-07 21:55:53 UTC
From: DAVID CLENCH
Topic: 1263 Message: 1289

OK John
I'll be there John. Lets hope conditions are good.

73 Dave.

_____
From: John Housego <John.Housego1@tiscali.co.uk>
To: mkars80@...
Sent: Saturday, 7 November, 2009 21:51:05
Subject: Re: [mkars80] net

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
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> Dave G0BVV
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> _____ _____ _____ __
> From: DAVID CLENCH <david.clench@ btinternet. com>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
>
> Hi Steve,
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> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
> Subject: Re: [mkars80] problem
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> Sent: Tuesday, November 03, 2009 10:37 PM
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> Sent: Tuesday, 3 November, 2009 22:18:03
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> David,
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> Steve G6ALU
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> ----- Original Message -----
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> Sent: Tuesday, November 03, 2009 8:50 PM
> Subject: Re: [mkars80] problem
>
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> Sent: Tuesday, November 03, 2009 11:53 AM
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> To: mkars80@yahoogroups .co.uk
> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
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> ----- Original Message -----
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> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
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> Reports
> > have all been good with comments like 'it sounds like an ordinary
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> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> 10/28/09
> 09:34:00
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> Yahoo! Groups Links

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> 11/02/09
> 07:51:00
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> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
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>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1290. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-07 21:59:37 UTC
From: Steve Drury
Topic: 1263 Message: 1290

Ohh err...

I'll try at 7:30 first then!

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Saturday, November 07, 2009 9:55 PM
Subject: Re: [mkars80] net

OK John
I'll be there John. Lets hope conditions are good.

73 Dave.

_____
From: John Housego <John.Housego1@...>
To: mkars80@...
Sent: Saturday, 7 November, 2009 21:51:05
Subject: Re: [mkars80] net

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: DAVID CLENCH <david.clench@ btinternet. com>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
>
> Hi Steve,
>
> I am flexible regarding time of net on Sunday. I think 07.30 is a good

> time but will go with the flow.
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
> Subject: Re: [mkars80] problem
>
> Hello David,
>
> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> been
> pinched by the other nets!
>
> I will be up early on Sunday so if any one wants to try earlier (7:30
> UTC
> onwards) please let me know. We had quite a few on last week's net but
> all
> sufered from QRM.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 10:37 PM
> Subject: Re: [mkars80] problem
>
> Steve
>
> No I repaired the leg of the device. It's now back in its box and been
> on
> air this evening. I hope to be on the net on Sunday if it is on.
>
> Thanks again
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 22:18:03
> Subject: Re: [mkars80] problem
>
> David,
>
> Please confirm you need a new transistor.

>
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 8:50 PM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> On closer inspection I found one of the legs of Q1 had fractured,
> probably
> when I removed the pcb from the case.
> Thanks for your promp and helpful advice.
>
> Regards
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 20:08:31
> Subject: Re: [mkars80] problem
>
> Dave,
>
> Not too sure if re-soldering caused the problem, when you say "loose"
> was
> the track broken to the transistor legs or perhaps the transistor legs
> themselves have broken. Inspect it carefully, if you need a new
> transistor
> please email me your address and I will put one in the post.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 11:53 AM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> I have just fitted the mod caps you kindly sent me and the drift
> problem is
> now history. However when refitting the board to the case I noticed
> that the

> solder joints to Q1 were loose and so I reflowed them using a larger
> iron.
> Now when I transmit the led stays on, I can hear my voice in the
> speaker and
> there is no rf output. The voltages on Q1 measure ok. Have I damaged
> Q1?
>
> Regards
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
>
> That makes you grin doesn't it... the guy at the other end is probably
> using
> >£1K worth of commercial radio and doesn't have a clue how it works!
> You
> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
>
> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
> black
> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> >
> >
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> ------------ --------- --------- --------- --------- --------- -
>

> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> 10/28/09
> 09:34:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> 11/02/09
> 07:51:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
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>
> No virus found in this incoming message.
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> 11/03/09
> 07:36:00
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> [Non-text portions of this message have been removed]
>

> [Non-text portions of this message have been removed]
>
>
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
07:38:00

1291. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-07 23:27:25 UTC
From: Chris Denham
Topic: 1263 Message: 1291

Do people get up at that time of the day ,It's still the middle of the night ? I'll see if I can drag myself out off the pit at 9.30 and give you a call if your still around 73 Chris G4VLL

On Sat, 7 Nov 2009 21:59:37 -0000, you wrote:

>Ohh err...
>
>I'll try at 7:30 first then!
>
>Steve G6ALU
>
>----- Original Message -----
>From: "DAVID CLENCH" <david.clench@...>
>To: <mkars80@...>
>Sent: Saturday, November 07, 2009 9:55 PM
>Subject: Re: [mkars80] net
>
>
>OK John
>I'll be there John. Lets hope conditions are good.
>
>73 Dave.
>
>
>
>
>
>
>_________________________________
>From: John Housego <John.Housego1@...>
>To: mkars80@...
>Sent: Saturday, 7 November, 2009 21:51:05
>Subject: Re: [mkars80] net
>
>
>Hello Dave,
>
>I shall give it a go at 07:30 tomorrow on 3.690
>
>73 de John (M0TIF)
>
>On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
>>
>>

>> Hi All
>> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
>> be around at 07:30 but will have a lie in if it's 09:30.
>>
>> Dave G0BVV
>>
>> _____ _____ _____ __
>> From: DAVID CLENCH <david.clench@ btinternet. com>
>> To: mkars80@yahoogroups .co.uk
>> Sent: Friday, 6 November, 2009 23:42:42
>> Subject: Re: [mkars80] problem
>>
>> Hi Steve,
>>
>> I am flexible regarding time of net on Sunday. I think 07.30 is a good
>> time but will go with the flow.
>>
>> Dave G0BVV
>>
>> _____ _____ _____ __
>> From: Steve Drury <g6alu@tiscali. co.uk>
>> To: mkars80@yahoogroups .co.uk
>> Sent: Friday, 6 November, 2009 16:03:32
>> Subject: Re: [mkars80] problem
>>
>> Hello David,
>>
>> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
>> been
>> pinched by the other nets!
>>
>> I will be up early on Sunday so if any one wants to try earlier (7:30
>> UTC
>> onwards) please let me know. We had quite a few on last week's net but
>> all
>> sufered from QRM.
>>
>> Regards,
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "DAVID CLENCH" <david.clench@ btinternet. com>
>> To: <mkars80@yahoogroup s .co.uk>
>> Sent: Tuesday, November 03, 2009 10:37 PM
>> Subject: Re: [mkars80] problem
>>
>> Steve
>>
>> No I repaired the leg of the device. It's now back in its box and been
>> on

>> air this evening. I hope to be on the net on Sunday if it is on.
>>
>> Thanks again
>>
>> Dave G0BVV
>>
>> _____ _____ _____ __
>> From: Steve Drury <g6alu@tiscali. co.uk>
>> To: mkars80@yahoogroups .co.uk
>> Sent: Tuesday, 3 November, 2009 22:18:03
>> Subject: Re: [mkars80] problem
>>
>> David,
>>
>> Please confirm you need a new transistor.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "DAVID CLENCH" <david.clench@ btinternet. com>
>> To: <mkars80@yahoogroup s .co.uk>
>> Sent: Tuesday, November 03, 2009 8:50 PM
>> Subject: Re: [mkars80] problem
>>
>> Hi Steve
>>
>> On closer inspection I found one of the legs of Q1 had fractured,
>> probably
>> when I removed the pcb from the case.
>> Thanks for your promp and helpful advice.
>>
>> Regards
>>
>> Dave G0BVV
>>
>> _____ _____ _____ __
>> From: Steve Drury <g6alu@tiscali. co.uk>
>> To: mkars80@yahoogroups .co.uk
>> Sent: Tuesday, 3 November, 2009 20:08:31
>> Subject: Re: [mkars80] problem
>>
>> Dave,
>>
>> Not too sure if re-soldering caused the problem, when you say "loose"
>> was
>> the track broken to the transistor legs or perhaps the transistor legs
>> themselves have broken. Inspect it carefully, if you need a new
>> transistor
>> please email me your address and I will put one in the post.
>>

>> Regards,
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "DAVID CLENCH" <david.clench@ btinternet. com>
>> To: <mkars80@yahoogroup s .co.uk>
>> Sent: Tuesday, November 03, 2009 11:53 AM
>> Subject: Re: [mkars80] problem
>>
>> Hi Steve
>>
>> I have just fitted the mod caps you kindly sent me and the drift
>> problem is
>> now history. However when refitting the board to the case I noticed
>> that the
>> solder joints to Q1 were loose and so I reflowed them using a larger
>> iron.
>> Now when I transmit the led stays on, I can hear my voice in the
>> speaker and
>> there is no rf output. The voltages on Q1 measure ok. Have I damaged
>> Q1?
>>
>> Regards
>>
>> Dave G0BVV
>>
>> _____ _____ _____ __
>> From: Steve Drury <g6alu@tiscali. co.uk>
>> To: mkars80@yahoogroups .co.uk
>> Sent: Thursday, 29 October, 2009 21:55:00
>> Subject: Re: [mkars80] UPDATE
>>
>> That makes you grin doesn't it... the guy at the other end is probably
>> using
>> >£1K worth of commercial radio and doesn't have a clue how it works!
>> You
>> have built your own for a fraction of the price and it does the same
>> job,
>> what's more you have a good chance of repairing it should it go wrong.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: <m5zzr@btinternet. com>
>> To: <mkars80@yahoogroup s .co.uk>
>> Sent: Thursday, October 29, 2009 12:15 AM
>> Subject: [mkars80] UPDATE
>>
>> > I've had a good few QSOs now - all daytime UK stations so far.
>> Reports

>> > have all been good with comments like 'it sounds like an ordinary
>> black
>> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
>> >
>> >
>> >
>> > ------------ --------- --------- ------
>> >
>> > Yahoo! Groups Links
>> >
>> >
>> >
>>
>> ------------ --------- --------- --------- --------- --------- -
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
>> 10/28/09
>> 09:34:00
>>
>> [Non-text portions of this message have been removed]
>>
>> ------------ --------- --------- ------
>>
>> Yahoo! Groups Links
>>
>> ------------ --------- --------- --------- --------- --------- -
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
>> 11/02/09
>> 07:51:00
>>
>> [Non-text portions of this message have been removed]
>>
>> ------------ --------- --------- ------
>>
>> Yahoo! Groups Links
>>
>> ------------ --------- --------- --------- --------- --------- -
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
>> 11/03/09
>> 07:36:00
>>
>> [Non-text portions of this message have been removed]

>>
>> ------------ --------- --------- ------
>>
>> Yahoo! Groups Links
>>
>> ------------ --------- --------- --------- --------- --------- -
>>
>> No virus found in this incoming message.
>> Checked by AVG - www.avg.com
>> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
>> 11/03/09
>> 07:36:00
>>
>> [Non-text portions of this message have been removed]
>>
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>[Non-text portions of this message have been removed]
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>[Non-text portions of this message have been removed]
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>
>Yahoo! Groups Links
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>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
>07:38:00

1292. Re: net

Yahoo group: mkars80
Date: 2009-11-07 23:33:18 UTC
From: mark
Topic: 1263 Message: 1292

i should be there at 7.30 it will be a first for me
mark 2w0jmk

--- In mkars80@..., Chris Denham <chris@...> wrote:
>
>
>
> Do people get up at that time of the day ,It's still the middle of the
> night ? I'll see if I can drag myself out off the pit at 9.30 and
> give you a call if your still around 73 Chris G4VLL
>
>
>
>
>
>
>
>
>
> On Sat, 7 Nov 2009 21:59:37 -0000, you wrote:
>
> >Ohh err...
> >
> >I'll try at 7:30 first then!
> >
> >Steve G6ALU
> >
> >----- Original Message -----
> >From: "DAVID CLENCH" <david.clench@...>
> >To: <mkars80@...>
> >Sent: Saturday, November 07, 2009 9:55 PM
> >Subject: Re: [mkars80] net
> >
> >
> >OK John
> >I'll be there John. Lets hope conditions are good.
> >
> >73 Dave.
> >
> >
> >
> >
> >
> >_____
> >From: John Housego <John.Housego1@...>

> >To: mkars80@...
> >Sent: Saturday, 7 November, 2009 21:51:05
> >Subject: Re: [mkars80] net
> >
> >
> >Hello Dave,
> >
> >I shall give it a go at 07:30 tomorrow on 3.690
> >
> >73 de John (M0TIF)
> >
> >On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
> >
> >>
> >>
> >> Hi All
> >> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> >> be around at 07:30 but will have a lie in if it's 09:30.
> >>
> >> Dave G0BVV
> >>
> >> _____ _____ _____ __
> >> From: DAVID CLENCH <david.clench@ btinternet. com>
> >> To: mkars80@yahoogroups .co.uk
> >> Sent: Friday, 6 November, 2009 23:42:42
> >> Subject: Re: [mkars80] problem
> >>
> >> Hi Steve,
> >>
> >> I am flexible regarding time of net on Sunday. I think 07.30 is a good
> >> time but will go with the flow.
> >>
> >> Dave G0BVV
> >>
> >> _____ _____ _____ __
> >> From: Steve Drury <g6alu@tiscali. co.uk>
> >> To: mkars80@yahoogroups .co.uk
> >> Sent: Friday, 6 November, 2009 16:03:32
> >> Subject: Re: [mkars80] problem
> >>
> >> Hello David,
> >>
> >> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> >> been
> >> pinched by the other nets!
> >>
> >> I will be up early on Sunday so if any one wants to try earlier (7:30
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> >> onwards) please let me know. We had quite a few on last week's net but
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> >> sufered from QRM.
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> >> Regards,
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> >> To: <mkars80@yahoogroup s .co.uk>
> >> Sent: Tuesday, November 03, 2009 10:37 PM
> >> Subject: Re: [mkars80] problem
> >>
> >> Steve
> >>
> >> No I repaired the leg of the device. It's now back in its box and been
> >> on
> >> air this evening. I hope to be on the net on Sunday if it is on.
> >>
> >> Thanks again
> >>
> >> Dave G0BVV
> >>
> >> _____ _____ _____ __
> >> From: Steve Drury <g6alu@tiscali. co.uk>
> >> To: mkars80@yahoogroups .co.uk
> >> Sent: Tuesday, 3 November, 2009 22:18:03
> >> Subject: Re: [mkars80] problem
> >>
> >> David,
> >>
> >> Please confirm you need a new transistor.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> >> To: <mkars80@yahoogroup s .co.uk>
> >> Sent: Tuesday, November 03, 2009 8:50 PM
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> >> On closer inspection I found one of the legs of Q1 had fractured,
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> >> _____ _____ _____ __
> >> From: Steve Drury <g6alu@tiscali. co.uk>
> >> To: mkars80@yahoogroups .co.uk
> >> Sent: Tuesday, 3 November, 2009 20:08:31
> >> Subject: Re: [mkars80] problem
> >>
> >> Dave,
> >>
> >> Not too sure if re-soldering caused the problem, when you say "loose"
> >> was
> >> the track broken to the transistor legs or perhaps the transistor legs
> >> themselves have broken. Inspect it carefully, if you need a new
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> >> Regards,
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> >> To: <mkars80@yahoogroup s .co.uk>
> >> Sent: Tuesday, November 03, 2009 11:53 AM
> >> Subject: Re: [mkars80] problem
> >>
> >> Hi Steve
> >>
> >> I have just fitted the mod caps you kindly sent me and the drift
> >> problem is
> >> now history. However when refitting the board to the case I noticed
> >> that the
> >> solder joints to Q1 were loose and so I reflowed them using a larger
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> >> Now when I transmit the led stays on, I can hear my voice in the
> >> speaker and
> >> there is no rf output. The voltages on Q1 measure ok. Have I damaged
> >> Q1?
> >>
> >> Regards
> >>
> >> Dave G0BVV
> >>
> >> _____ _____ _____ __
> >> From: Steve Drury <g6alu@tiscali. co.uk>
> >> To: mkars80@yahoogroups .co.uk
> >> Sent: Thursday, 29 October, 2009 21:55:00
> >> Subject: Re: [mkars80] UPDATE
> >>
> >> That makes you grin doesn't it... the guy at the other end is probably
> >> using
> >> >£1K worth of commercial radio and doesn't have a clue how it works!

> >> You
> >> have built your own for a fraction of the price and it does the same
> >> job,
> >> what's more you have a good chance of repairing it should it go wrong.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: <m5zzr@btinternet. com>
> >> To: <mkars80@yahoogroup s .co.uk>
> >> Sent: Thursday, October 29, 2009 12:15 AM
> >> Subject: [mkars80] UPDATE
> >>
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> >> > have all been good with comments like 'it sounds like an ordinary
> >> black
> >> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> >> > ------------ --------- --------- ------
> >> >
> >> > Yahoo! Groups Links
> >> >
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> >> >
> >>
> >> ------------ --------- --------- --------- --------- --------- -
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> >> 10/28/09
> >> 09:34:00
> >>
> >> [Non-text portions of this message have been removed]
> >>
> >> ------------ --------- --------- ------
> >>
> >> Yahoo! Groups Links
> >>
> >> ------------ --------- --------- --------- --------- --------- -
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> >> 11/02/09
> >> 07:51:00
> >>

> >> [Non-text portions of this message have been removed]
> >>
> >> ------------ --------- --------- ------
> >>
> >> Yahoo! Groups Links
> >>
> >> ------------ --------- --------- --------- --------- --------- -
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> >> 11/03/09
> >> 07:36:00
> >>
> >> [Non-text portions of this message have been removed]
> >>
> >> ------------ --------- --------- ------
> >>
> >> Yahoo! Groups Links
> >>
> >> ------------ --------- --------- --------- --------- --------- -
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG - www.avg.com
> >> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> >> 11/03/09
> >> 07:36:00
> >>
> >> [Non-text portions of this message have been removed]
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> >> [Non-text portions of this message have been removed]
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> >[Non-text portions of this message have been removed]
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> >[Non-text portions of this message have been removed]
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> >
> >Yahoo! Groups Links
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> >
> >No virus found in this incoming message.
> >Checked by AVG - www.avg.com
> >Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
> >07:38:00
>

1293. RE: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-07 23:58:55 UTC
From: David White
Topic: 1263 Message: 1293

ello john M0TIF i see u have disapeared off of one reflector but your still on this one so most people will still see your e mails. i will monitor 3690 tomorrow to see if the QRM is that bad. de G3ZPA

NNNN

To: mkars80@...
From: John.Housego1@...
Date: Sat, 7 Nov 2009 21:51:05 +0000
Subject: Re: [mkars80] net

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
>
> Dave G0BVV
>
> _____
> From: DAVID CLENCH <david.clench@...>
> To: mkars80@...
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
>
> Hi Steve,
>
> I am flexible regarding time of net on Sunday. I think 07.30 is a good
> time but will go with the flow.
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
> Subject: Re: [mkars80] problem
>
> Hello David,

>
> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> been
> pinched by the other nets!
>
> I will be up early on Sunday so if any one wants to try earlier (7:30
> UTC
> onwards) please let me know. We had quite a few on last week's net but
> all
> sufered from QRM.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 10:37 PM
> Subject: Re: [mkars80] problem
>
> Steve
>
> No I repaired the leg of the device. It's now back in its box and been
> on
> air this evening. I hope to be on the net on Sunday if it is on.
>
> Thanks again
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 22:18:03
> Subject: Re: [mkars80] problem
>
> David,
>
> Please confirm you need a new transistor.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 8:50 PM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>

> On closer inspection I found one of the legs of Q1 had fractured,
> probably
> when I removed the pcb from the case.
> Thanks for your promp and helpful advice.
>
> Regards
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 20:08:31
> Subject: Re: [mkars80] problem
>
> Dave,
>
> Not too sure if re-soldering caused the problem, when you say "loose"
> was
> the track broken to the transistor legs or perhaps the transistor legs
> themselves have broken. Inspect it carefully, if you need a new
> transistor
> please email me your address and I will put one in the post.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 11:53 AM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> I have just fitted the mod caps you kindly sent me and the drift
> problem is
> now history. However when refitting the board to the case I noticed
> that the
> solder joints to Q1 were loose and so I reflowed them using a larger
> iron.
> Now when I transmit the led stays on, I can hear my voice in the
> speaker and
> there is no rf output. The voltages on Q1 measure ok. Have I damaged
> Q1?
>
> Regards
>
> Dave G0BVV
>

> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
>
> That makes you grin doesn't it... the guy at the other end is probably
> using
> >?1K worth of commercial radio and doesn't have a clue how it works!
> You
> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
>
> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
> black
> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> >
> >
> >
> > ------ ------ ------ ------
> >
> > Yahoo! Groups Links
> >
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>
> ------ ------ ------ ------ ------ ------ -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> 10/28/09
> 09:34:00
>
> [Non-text portions of this message have been removed]
>
> ------ ------ ------ ------
>
> Yahoo! Groups Links

>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> 11/02/09
> 07:51:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> 11/03/09
> 07:36:00
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> [Non-text portions of this message have been removed]
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> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
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>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
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>
>
>

[Non-text portions of this message have been removed]

_____
Chat to your friends for free on selected mobiles
http://clk.atdmt.com/UKM/go/174426567/direct/01/

[Non-text portions of this message have been removed]

1294. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-08 07:39:50 UTC
From: Steve Drury
Topic: 1263 Message: 1294

On air now try 3.719MHz.

Steve G6ALU

----- Original Message -----
From: "John Housego" <John.Housego1@...>
To: <mkars80@...>
Sent: Saturday, November 07, 2009 9:51 PM
Subject: Re: [mkars80] net

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
>
> Dave G0BVV
>
> _____
> From: DAVID CLENCH <david.clench@...>
> To: mkars80@...
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
>
> Hi Steve,
>
> I am flexible regarding time of net on Sunday. I think 07.30 is a good
> time but will go with the flow.
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
> Subject: Re: [mkars80] problem
>
> Hello David,
>

> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> been
> pinched by the other nets!
>
> I will be up early on Sunday so if any one wants to try earlier (7:30
> UTC
> onwards) please let me know. We had quite a few on last week's net but
> all
> sufered from QRM.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 10:37 PM
> Subject: Re: [mkars80] problem
>
> Steve
>
> No I repaired the leg of the device. It's now back in its box and been
> on
> air this evening. I hope to be on the net on Sunday if it is on.
>
> Thanks again
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 22:18:03
> Subject: Re: [mkars80] problem
>
> David,
>
> Please confirm you need a new transistor.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 8:50 PM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> On closer inspection I found one of the legs of Q1 had fractured,

> probably
> when I removed the pcb from the case.
> Thanks for your promp and helpful advice.
>
> Regards
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 20:08:31
> Subject: Re: [mkars80] problem
>
> Dave,
>
> Not too sure if re-soldering caused the problem, when you say "loose"
> was
> the track broken to the transistor legs or perhaps the transistor legs
> themselves have broken. Inspect it carefully, if you need a new
> transistor
> please email me your address and I will put one in the post.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 11:53 AM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> I have just fitted the mod caps you kindly sent me and the drift
> problem is
> now history. However when refitting the board to the case I noticed
> that the
> solder joints to Q1 were loose and so I reflowed them using a larger
> iron.
> Now when I transmit the led stays on, I can hear my voice in the
> speaker and
> there is no rf output. The voltages on Q1 measure ok. Have I damaged
> Q1?
>
> Regards
>
> Dave G0BVV
>
> _____ _____ _____ __

> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
>
> That makes you grin doesn't it... the guy at the other end is probably
> using
> >£1K worth of commercial radio and doesn't have a clue how it works!
> You
> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
>
> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
> black
> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> >
> >
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> 10/28/09
> 09:34:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>

> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> 11/02/09
> 07:51:00
>
> [Non-text portions of this message have been removed]
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> ------------ --------- --------- ------
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> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
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> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
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>
>
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
07:38:00

1295. Re: net

Yahoo group: mkars80
Date: 2009-11-08 07:51:09 UTC
From: mark
Topic: 1263 Message: 1295

well spoke to steve g6alu briefly but cant here nothing on 3.719 and i could here g4mdr ok on 3.690
mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> On air now try 3.719MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@...>
> To: <mkars80@...>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690
>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
> > >
> > >
> > > Hi All
> > > Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> > > be around at 07:30 but will have a lie in if it's 09:30.
> > >
> > > Dave G0BVV
> > >
> > > _____
> > > From: DAVID CLENCH <david.clench@...>
> > > To: mkars80@...
> > > Sent: Friday, 6 November, 2009 23:42:42
> > > Subject: Re: [mkars80] problem
> > >
> > > Hi Steve,
> > >
> > > I am flexible regarding time of net on Sunday. I think 07.30 is a good
> > > time but will go with the flow.
> > >
> > > Dave G0BVV

> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 16:03:32
> > Subject: Re: [mkars80] problem
> >
> > Hello David,
> >
> > We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> > been
> > pinched by the other nets!
> >
> > I will be up early on Sunday so if any one wants to try earlier (7:30
> > UTC
> > onwards) please let me know. We had quite a few on last week's net but
> > all
> > sufered from QRM.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
> >
> > Steve
> >
> > No I repaired the leg of the device. It's now back in its box and been
> > on
> > air this evening. I hope to be on the net on Sunday if it is on.
> >
> > Thanks again
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 22:18:03
> > Subject: Re: [mkars80] problem
> >
> > David,
> >
> > Please confirm you need a new transistor.
> >
> > Steve G6ALU
> >

> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > On closer inspection I found one of the legs of Q1 had fractured,
> > probably
> > when I removed the pcb from the case.
> > Thanks for your promp and helpful advice.
> >
> > Regards
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 20:08:31
> > Subject: Re: [mkars80] problem
> >
> > Dave,
> >
> > Not too sure if re-soldering caused the problem, when you say "loose"
> > was
> > the track broken to the transistor legs or perhaps the transistor legs
> > themselves have broken. Inspect it carefully, if you need a new
> > transistor
> > please email me your address and I will put one in the post.
> >
> > Regards,
> > Steve G6ALU
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> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 11:53 AM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > I have just fitted the mod caps you kindly sent me and the drift
> > problem is
> > now history. However when refitting the board to the case I noticed
> > that the
> > solder joints to Q1 were loose and so I reflowed them using a larger
> > iron.
> > Now when I transmit the led stays on, I can hear my voice in the

> > speaker and
> > there is no rf output. The voltages on Q1 measure ok. Have I damaged
> > Q1?
> >
> > Regards
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00
> > Subject: Re: [mkars80] UPDATE
> >
> > That makes you grin doesn't it... the guy at the other end is probably
> > using
> > >Â£1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
> > job,
> > what's more you have a good chance of repairing it should it go wrong.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE
> >
> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> > >
> > >
> > >
> > > ---------- --------- --------- ------
> > >
> > > Yahoo! Groups Links
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> >
> > ---------- --------- --------- --------- --------- --------- -
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:

> > 10/28/09
> > 09:34:00
> >
> > [Non-text portions of this message have been removed]
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
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> > ------------ --------- --------- --------- --------- --------- -
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> > 11/02/09
> > 07:51:00
> >
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> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> > ------------ --------- --------- --------- --------- --------- -
> >
> > No virus found in this incoming message.
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> >
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>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
> 07:38:00
>

1296. Re: [mkars80] Re: net

Yahoo group: mkars80
Date: 2009-11-08 08:05:43 UTC
From: Ron Vingerling
Topic: 1263 Message: 1296

Unfortunately I lost you guys because of heavy QRM from various contests on the continent. Anyway, I have added another international MKARS80 to the log, Steve, and with 50 and 5 Watts this time. Thanks, enjoy the net on 3720.

73 Ron pa0rcl

From: mark <mw3hqt@...>
To: mkars80@...
Sent: Sun, 8 November, 2009 8:51:09
Subject: [mkars80] Re: net

well spoke to steve g6alu briefly but cant here nothing on 3.719 and i could here g4mdr ok on 3.690
mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> On air now try 3.719MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@...>
> To: <mkars80@...>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690
>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
> > >
> > >
> > > Hi All
> > > Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> > > be around at 07:30 but will have a lie in if it's 09:30.
> > >
> > > Dave G0BVV
> > >
> > > _____

> > From: DAVID CLENCH <david.clench@...>
> > To: mkars80@...
> > Sent: Friday, 6 November, 2009 23:42:42
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve,
> >
> > I am flexible regarding time of net on Sunday. I think 07.30 is a good
> > time but will go with the flow.
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 16:03:32
> > Subject: Re: [mkars80] problem
> >
> > Hello David,
> >
> > We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> > been
> > pinched by the other nets!
> >
> > I will be up early on Sunday so if any one wants to try earlier (7:30
> > UTC
> > onwards) please let me know. We had quite a few on last week's net but
> > all
> > sufered from QRM.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
> >
> > Steve
> >
> > No I repaired the leg of the device. It's now back in its box and been
> > on
> > air this evening. I hope to be on the net on Sunday if it is on.
> >
> > Thanks again
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __

> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 22:18:03
> > Subject: Re: [mkars80] problem
> >
> > David,
> >
> > Please confirm you need a new transistor.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > On closer inspection I found one of the legs of Q1 had fractured,
> > probably
> > when I removed the pcb from the case.
> > Thanks for your promp and helpful advice.
> >
> > Regards
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 20:08:31
> > Subject: Re: [mkars80] problem
> >
> > Dave,
> >
> > Not too sure if re-soldering caused the problem, when you say "loose"
> > was
> > the track broken to the transistor legs or perhaps the transistor legs
> > themselves have broken. Inspect it carefully, if you need a new
> > transistor
> > please email me your address and I will put one in the post.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 11:53 AM

> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > I have just fitted the mod caps you kindly sent me and the drift
> > problem is
> > now history. However when refitting the board to the case I noticed
> > that the
> > solder joints to Q1 were loose and so I reflowed them using a larger
> > iron.
> > Now when I transmit the led stays on, I can hear my voice in the
> > speaker and
> > there is no rf output. The voltages on Q1 measure ok. Have I damaged
> > Q1?
> >
> > Regards
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00
> > Subject: Re: [mkars80] UPDATE
> >
> > That makes you grin doesn't it... the guy at the other end is probably
> > using
> > >Â£1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
> > job,
> > what's more you have a good chance of repairing it should it go wrong.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE
> >
> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> > >
> > >
> > >
> > > ----------- --------- --------- ------

> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> >
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> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> > 10/28/09
> > 09:34:00
> >
> > [Non-text portions of this message have been removed]
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
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> >
> > No virus found in this incoming message.
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> > Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> > 11/02/09
> > 07:51:00
> >
> > [Non-text portions of this message have been removed]
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> > ------------ --------- --------- --------- --------- --------- -
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> > Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
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> ------------------------------------
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> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
> 07:38:00
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1297. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-08 08:06:45 UTC
From: John Housego
Topic: 1263 Message: 1297

Nice to make the early bird "MKARS80" net this morning!

G6ALU Steve 53
2E0JMK Mark 54
G0BVV 52
G4MDR Alan 58
G3ZPA Dave 59
G1AOZ Jim 54
PA0RCL Ron 54

Thanks chaps

John (M0TIF)

On Sun, 2009-11-08 at 07:39 +0000, Steve Drury wrote:

>
>
> On air now try 3.719MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@tiscali.co.uk>
> To: <mkars80@...>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690
>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
> >
> >
> > Hi All
> > Can I assume the net will be at 09:30 tomorrow morning? I am happy
> to
> > be around at 07:30 but will have a lie in if it's 09:30.
> >
> > Dave G0BVV
> >
> > _____

> > From: DAVID CLENCH <david.clench@...>
> > To: mkars80@...
> > Sent: Friday, 6 November, 2009 23:42:42
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve,
> >
> > I am flexible regarding time of net on Sunday. I think 07.30 is a
> good
> > time but will go with the flow.
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 16:03:32
> > Subject: Re: [mkars80] problem
> >
> > Hello David,
> >
> > We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it
> hasn't
> > been
> > pinched by the other nets!
> >
> > I will be up early on Sunday so if any one wants to try earlier
> (7:30
> > UTC
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> but
> > all
> > sufered from QRM.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
> >
> > Steve
> >
> > No I repaired the leg of the device. It's now back in its box and
> been
> > on
> > air this evening. I hope to be on the net on Sunday if it is on.
> >

> > Thanks again
> >
> > Dave G0BVV
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> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 22:18:03
> > Subject: Re: [mkars80] problem
> >
> > David,
> >
> > Please confirm you need a new transistor.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > On closer inspection I found one of the legs of Q1 had fractured,
> > probably
> > when I removed the pcb from the case.
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> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 20:08:31
> > Subject: Re: [mkars80] problem
> >
> > Dave,
> >
> > Not too sure if re-soldering caused the problem, when you say
> "loose"
> > was
> > the track broken to the transistor legs or perhaps the transistor
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> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 11:53 AM
> > Subject: Re: [mkars80] problem
> >
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> > problem is
> > now history. However when refitting the board to the case I noticed
> > that the
> > solder joints to Q1 were loose and so I reflowed them using a larger
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> > speaker and
> > there is no rf output. The voltages on Q1 measure ok. Have I damaged
> > Q1?
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> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00
> > Subject: Re: [mkars80] UPDATE
> >
> > That makes you grin doesn't it... the guy at the other end is
> probably
> > using
> > >£1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
> > job,
> > what's more you have a good chance of repairing it should it go
> wrong.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE
> >

> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> > > Yahoo! Groups Links
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> > 07:51:00
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> 11/07/09
> 07:38:00
>
>
>
>
>

[Non-text portions of this message have been removed]

1298. Re: [mkars80] Re: net

Yahoo group: mkars80
Date: 2009-11-08 08:08:09 UTC
From: Steve Drury
Topic: 1263 Message: 1298

Bad QRM on 3.690 so we moved to 3.7198, conditions a little better with the following calls heard;

2E0JMK
G4MDR
G3ZPA - Dave, Comercial radio 10W
G1AOZ
M0TIF
PA0RCL - Ron, MKARS80 with 50W PA

Will try it again at 9:30 UTC on 3.690MHz as usual.

Steve G6ALU

----- Original Message -----
From: "mark" <mw3hqt@...>
To: <mkars80@...>
Sent: Sunday, November 08, 2009 7:51 AM
Subject: [mkars80] Re: net

well spoke to steve g6alu briefly but cant here nothing on 3.719 and i could here g4mdr ok on 3.690
mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> On air now try 3.719MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@...>
> To: <mkars80@...>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690
>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
> >

> >
> > Hi All
> > Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> > be around at 07:30 but will have a lie in if it's 09:30.
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> > Dave G0BVV
> >
> > _____
> > From: DAVID CLENCH <david.clench@...>
> > To: mkars80@...
> > Sent: Friday, 6 November, 2009 23:42:42
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve,
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> > I am flexible regarding time of net on Sunday. I think 07.30 is a good
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> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
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> > Steve
> >
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> > Subject: Re: [mkars80] problem
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> > Steve G6ALU
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> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
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> > Hi Steve
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> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
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> > Subject: Re: [mkars80] problem
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> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00
> > Subject: Re: [mkars80] UPDATE
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> > >£1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
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> > To: <mkars80@yahoogroup s .co.uk>
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> > [Non-text portions of this message have been removed]
> >
> > ------------ --------- --------- ------
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> > Yahoo! Groups Links
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> > ------------ --------- --------- --------- --------- --------- -
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> > 11/03/09
> > 07:36:00
> >
> > [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
> 07:38:00
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
07:38:00

1299. Re: [mkars80] Re: net

Yahoo group: mkars80
Date: 2009-11-08 08:10:57 UTC
From: DAVID CLENCH
Topic: 1263 Message: 1299

This morning a bit noisy but here is my Summary:- G6ALU 5x5, G3ZPA 5x7, G4MDR 5x8, 2E0JMK 5x5, M0TIF 4x4, G1 AOZ heard on call in but then disappeared,
PA0RCL 4x4.

From: mark <mw3hqt@aol.com>
To: mkars80@...
Sent: Sunday, 8 November, 2009 7:51:09
Subject: [mkars80] Re: net

well spoke to steve g6alu briefly but cant here nothing on 3.719 and i could here g4mdr ok on 3.690
mark 2w0jmk

--- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
>
> On air now try 3.719MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@ ...>
> To: <mkars80@yahoogroups .co.uk>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690
>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
> >
> >
> > Hi All
> > Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> > be around at 07:30 but will have a lie in if it's 09:30.
> >
> > Dave G0BVV
> >
> > ___________ _________ _________ __
> > From: DAVID CLENCH <david.clench@ ...>
> > To: mkars80@yahoogroups .co.uk

> > Sent: Friday, 6 November, 2009 23:42:42
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve,
> >
> > I am flexible regarding time of net on Sunday. I think 07.30 is a good
> > time but will go with the flow.
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 16:03:32
> > Subject: Re: [mkars80] problem
> >
> > Hello David,
> >
> > We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> > been
> > pinched by the other nets!
> >
> > I will be up early on Sunday so if any one wants to try earlier (7:30
> > UTC
> > onwards) please let me know. We had quite a few on last week's net but
> > all
> > sufered from QRM.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
> >
> > Steve
> >
> > No I repaired the leg of the device. It's now back in its box and been
> > on
> > air this evening. I hope to be on the net on Sunday if it is on.
> >
> > Thanks again
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk

> > Sent: Tuesday, 3 November, 2009 22:18:03
> > Subject: Re: [mkars80] problem
> >
> > David,
> >
> > Please confirm you need a new transistor.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > On closer inspection I found one of the legs of Q1 had fractured,
> > probably
> > when I removed the pcb from the case.
> > Thanks for your promp and helpful advice.
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> > Regards
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 20:08:31
> > Subject: Re: [mkars80] problem
> >
> > Dave,
> >
> > Not too sure if re-soldering caused the problem, when you say "loose"
> > was
> > the track broken to the transistor legs or perhaps the transistor legs
> > themselves have broken. Inspect it carefully, if you need a new
> > transistor
> > please email me your address and I will put one in the post.
> >
> > Regards,
> > Steve G6ALU
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> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 11:53 AM
> > Subject: Re: [mkars80] problem
> >

> > Hi Steve
> >
> > I have just fitted the mod caps you kindly sent me and the drift
> > problem is
> > now history. However when refitting the board to the case I noticed
> > that the
> > solder joints to Q1 were loose and so I reflowed them using a larger
> > iron.
> > Now when I transmit the led stays on, I can hear my voice in the
> > speaker and
> > there is no rf output. The voltages on Q1 measure ok. Have I damaged
> > Q1?
> >
> > Regards
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00
> > Subject: Re: [mkars80] UPDATE
> >
> > That makes you grin doesn't it... the guy at the other end is probably
> > using
> > >Â£1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
> > job,
> > what's more you have a good chance of repairing it should it go wrong.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE
> >
> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> > > >
> > > >
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> > > > Yahoo! Groups Links

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> > Checked by AVG - www.avg.com
> > Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> > 10/28/09
> > 09:34:00
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> >
> > ------------ --------- --------- --------- --------- --------- -
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> > 11/02/09
> > 07:51:00
> >
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> 07:38:00
>

[Non-text portions of this message have been removed]

1300. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-08 08:23:31 UTC
From: Clive Reynolds
Topic: 1263 Message: 1300

Hi Steve

Where are you now? 3.719 & 3.691 seem to be full

Clive G3GJA (nr Hull)

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, November 08, 2009 7:39 AM
Subject: Re: [mkars80] net

On air now try 3.719MHz.

Steve G6ALU

----- Original Message -----
From: "John Housego" <John.Housego1@...>
To: <mkars80@...>
Sent: Saturday, November 07, 2009 9:51 PM
Subject: Re: [mkars80] net

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
>
> Dave G0BVV
>
> _____
> From: DAVID CLENCH <david.clench@...>
> To: mkars80@...
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
>
> Hi Steve,
>
> I am flexible regarding time of net on Sunday. I think 07.30 is a good
> time but will go with the flow.

>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
> Subject: Re: [mkars80] problem
>
> Hello David,
>
> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
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> pinched by the other nets!
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> I will be up early on Sunday so if any one wants to try earlier (7:30
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> sufered from QRM.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 10:37 PM
> Subject: Re: [mkars80] problem
>
> Steve
>
> No I repaired the leg of the device. It's now back in its box and been
> on
> air this evening. I hope to be on the net on Sunday if it is on.
>
> Thanks again
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> Dave G0BVV
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> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 22:18:03
> Subject: Re: [mkars80] problem
>
> David,
>
> Please confirm you need a new transistor.
>

> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 8:50 PM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> On closer inspection I found one of the legs of Q1 had fractured,
> probably
> when I removed the pcb from the case.
> Thanks for your promp and helpful advice.
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> Regards
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> Dave G0BVV
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> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 20:08:31
> Subject: Re: [mkars80] problem
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> From: "DAVID CLENCH" <david.clench@ btinternet. com>
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> Sent: Tuesday, November 03, 2009 11:53 AM
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> iron.
> Now when I transmit the led stays on, I can hear my voice in the
> speaker and
> there is no rf output. The voltages on Q1 measure ok. Have I damaged
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> Dave G0BVV
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> ___ ___ ___ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
>
> That makes you grin doesn't it... the guy at the other end is probably
> using
> >£1K worth of commercial radio and doesn't have a clue how it works!
> You
> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
>
> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
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> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
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> Yahoo! Groups Links
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Yahoo! Groups Links

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07:38:00

HESH Computer Services Ltd
12 Louis Pearlman Centre
Goulton Street
Hull HU3 4DL

Tel: 0845 1662725
Web: www.hesh.co.uk
Registered in England No. 3003479
VAT No. 647 3679 95

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[Non-text portions of this message have been removed]

1301. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-08 08:33:59 UTC
From: Steve Drury
Topic: 1263 Message: 1301

QRT at the moment, will try on 3.690 @ 09:30.

Steve G6ALU

----- Original Message -----
From: "Clive Reynolds" <clive@...>
To: <mkars80@...>
Sent: Sunday, November 08, 2009 8:23 AM
Subject: Re: [mkars80] net

Hi Steve

Where are you now? 3.719 & 3.691 seem to be full

Clive G3GJA (nr Hull)

----- Original Message -----
From: Steve Drury
To: mkars80@...
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On air now try 3.719MHz.

Steve G6ALU

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From: "John Housego" <John.Housego1@...>
To: <mkars80@...>
Sent: Saturday, November 07, 2009 9:51 PM
Subject: Re: [mkars80] net

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> job,
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> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> 10/28/09
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> 11/02/09
> 07:51:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
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> 11/03/09
> 07:36:00
>
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>
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>
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>
>
>
>

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Yahoo! Groups Links

No virus found in this incoming message.
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Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
07:38:00

HESH Computer Services Ltd
12 Louis Pearlman Centre
Goulton Street
Hull HU3 4DL

Tel: 0845 1662725
Web: www.hesh.co.uk
Registered in England No. 3003479
VAT No. 647 3679 95

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

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Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
07:38:00

1302. RE: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-08 09:05:11 UTC
From: David White
Topic: 1263 Message: 1302

just to confirm that everyone on 3.690 was readability 5 and when going to 3.719 again all signals readability 5 the strongest was steve ALU at 5/8 the weakest was john TIF at 5/5. i think the advantage for me is having an extremely low aerial which is 110 feet long and 9 feet high tapering down to 5 foot high at the front hedge. but i was running just over 10 watts which is double what you guys were using. when i went over to my very high aerial (a Zepp at 55 feet high) i could not read anyone due to the massive QRM. even jim from cumbria was fully readable. this is the first time i have listened to all these MKARS80 rigs and they all have superb modulation. de G3ZPA

NNNN

To: mkars80@...
From: John.Housego1@...
Date: Sun, 8 Nov 2009 08:06:45 +0000
Subject: Re: [mkars80] net

Nice to make the early bird "MKARS80" net this morning!

G6ALU Steve 53
2E0JMK Mark 54
G0BVV 52
G4MDR Alan 58
G3ZPA Dave 59
G1AOZ Jim 54
PA0RCL Ron 54

Thanks chaps

John (M0TIF)

On Sun, 2009-11-08 at 07:39 +0000, Steve Drury wrote:

>
>
> On air now try 3.719MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@...>
> To: <mkars80@...>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690

>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
> >
> >
> > Hi All
> > Can I assume the net will be at 09:30 tomorrow morning? I am happy
> to
> > be around at 07:30 but will have a lie in if it's 09:30.
> >
> > Dave G0BVV
> >
> > _____
> > From: DAVID CLENCH <david.clench@...>
> > To: mkars80@...
> > Sent: Friday, 6 November, 2009 23:42:42
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve,
> >
> > I am flexible regarding time of net on Sunday. I think 07.30 is a
> good
> > time but will go with the flow.
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 16:03:32
> > Subject: Re: [mkars80] problem
> >
> > Hello David,
> >
> > We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it
> hasn't
> > been
> > pinched by the other nets!
> >
> > I will be up early on Sunday so if any one wants to try earlier
> (7:30
> > UTC
> > onwards) please let me know. We had quite a few on last week's net
> but
> > all
> > sufered from QRM.
> >
> > Regards,

> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
> >
> > Steve
> >
> > No I repaired the leg of the device. It's now back in its box and
> been
> > on
> > air this evening. I hope to be on the net on Sunday if it is on.
> >
> > Thanks again
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 22:18:03
> > Subject: Re: [mkars80] problem
> >
> > David,
> >
> > Please confirm you need a new transistor.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > On closer inspection I found one of the legs of Q1 had fractured,
> > probably
> > when I removed the pcb from the case.
> > Thanks for your promp and helpful advice.
> >
> > Regards
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>

> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 20:08:31
> > Subject: Re: [mkars80] problem
> >
> > Dave,
> >
> > Not too sure if re-soldering caused the problem, when you say
> "loose"
> > was
> > the track broken to the transistor legs or perhaps the transistor
> legs
> > themselves have broken. Inspect it carefully, if you need a new
> > transistor
> > please email me your address and I will put one in the post.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 11:53 AM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > I have just fitted the mod caps you kindly sent me and the drift
> > problem is
> > now history. However when refitting the board to the case I noticed
> > that the
> > solder joints to Q1 were loose and so I reflowed them using a larger
> > iron.
> > Now when I transmit the led stays on, I can hear my voice in the
> > speaker and
> > there is no rf output. The voltages on Q1 measure ok. Have I damaged
> > Q1?
> >
> > Regards
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00
> > Subject: Re: [mkars80] UPDATE
> >
> > That makes you grin doesn't it... the guy at the other end is
> probably
> > using

> > >?1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
> > job,
> > what's more you have a good chance of repairing it should it go
> wrong.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE
> >
> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> > >
> > >
> > >
> > > ------------ --------- --------- ------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> >
> > ------------ --------- --------- --------- --------- --------- -
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> > 10/28/09
> > 09:34:00
> >
> > [Non-text portions of this message have been removed]
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> > ------------ --------- --------- --------- --------- --------- -
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> > 11/02/09

> > 07:51:00
> >
> > [Non-text portions of this message have been removed]
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> > ------------ --------- --------- --------- --------- --------- -
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> > 11/03/09
> > 07:36:00
> >
> > [Non-text portions of this message have been removed]
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> > ------------ --------- --------- --------- --------- --------- -
> >
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> > Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
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> >
> > [Non-text portions of this message have been removed]
> >
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> >
> >
> >
> >
> >
>
> [Non-text portions of this message have been removed]
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> --
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date:

> 11/07/09
> 07:38:00
>
>
>
>
>

[Non-text portions of this message have been removed]

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http://clk.atdmt.com/UKM/go/174426567/direct/01/

[Non-text portions of this message have been removed]

1303. Re: [mkars80] Re: net

Yahoo group: mkars80
Date: 2009-11-08 09:55:06 UTC
From: DAVID CLENCH
Topic: 1263 Message: 1303

9:30 net conditions much worse. Very strong station LF of 3.690. At 09:50 an OZ station started calling cq so I hung up my headphones. Called in a couple of times but was not heard. I heard G6ALU/G4MDR/G8JWT/G3GJA but all were very much down on the 07:30 net.

From: Ron Vingerling <ronvingerling@...>
To: mkars80@...
Sent: Sunday, 8 November, 2009 8:05:43
Subject: Re: [mkars80] Re: net

Unfortunately I lost you guys because of heavy QRM from various contests on the continent. Anyway, I have added another international MKARS80 to the log, Steve, and with 50 and 5 Watts this time. Thanks, enjoy the net on 3720.

73 Ron pa0rcl

From: mark <mw3hqt@aol.com>
To: mkars80@yahoogroups .co.uk
Sent: Sun, 8 November, 2009 8:51:09
Subject: [mkars80] Re: net

well spoke to steve g6alu briefly but cant here nothing on 3.719 and i could here g4mdr ok on 3.690
mark 2w0jmk

--- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
>
> On air now try 3.719MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@ ...>
> To: <mkars80@yahoogroups .co.uk>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690
>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
> >
> >
> > Hi All
> > Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> > be around at 07:30 but will have a lie in if it's 09:30.
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: DAVID CLENCH <david.clench@ ...>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 23:42:42
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve,
> >
> > I am flexible regarding time of net on Sunday. I think 07.30 is a good
> > time but will go with the flow.
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 16:03:32
> > Subject: Re: [mkars80] problem
> >
> > Hello David,
> >
> > We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> > been
> > pinched by the other nets!
> >
> > I will be up early on Sunday so if any one wants to try earlier (7:30
> > UTC
> > onwards) please let me know. We had quite a few on last week's net but
> > all
> > sufered from QRM.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
> >
> > Steve

> >
> > No I repaired the leg of the device. It's now back in its box and been
> > on
> > air this evening. I hope to be on the net on Sunday if it is on.
> >
> > Thanks again
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 22:18:03
> > Subject: Re: [mkars80] problem
> >
> > David,
> >
> > Please confirm you need a new transistor.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > On closer inspection I found one of the legs of Q1 had fractured,
> > probably
> > when I removed the pcb from the case.
> > Thanks for your promp and helpful advice.
> >
> > Regards
> >
> > Dave G0BVV
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> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 20:08:31
> > Subject: Re: [mkars80] problem
> >
> > Dave,
> >
> > Not too sure if re-soldering caused the problem, when you say "loose"
> > was
> > the track broken to the transistor legs or perhaps the transistor legs
> > themselves have broken. Inspect it carefully, if you need a new

> > transistor
> > please email me your address and I will put one in the post.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 11:53 AM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > I have just fitted the mod caps you kindly sent me and the drift
> > problem is
> > now history. However when refitting the board to the case I noticed
> > that the
> > solder joints to Q1 were loose and so I reflowed them using a larger
> > iron.
> > Now when I transmit the led stays on, I can hear my voice in the
> > speaker and
> > there is no rf output. The voltages on Q1 measure ok. Have I damaged
> > Q1?
> >
> > Regards
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00
> > Subject: Re: [mkars80] UPDATE
> >
> > That makes you grin doesn't it... the guy at the other end is probably
> > using
> > >Â£1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
> > job,
> > what's more you have a good chance of repairing it should it go wrong.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE

> >
> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> > >
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> >
> > [Non-text portions of this message have been removed]
> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
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> >
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> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> > ------------ --------- --------- --------- --------- --------- -
> >
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> > 07:36:00
> >
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> >
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> >
> >
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>
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>
>
> ------------ --------- --------- ------
>
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>
>
>
>
>
> ------------ --------- --------- --------- --------- --------- -
>
>
>
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> 07:38:00
>

------------ --------- --------- ------

Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1304. Re: [mkars80] Re: net

Yahoo group: mkars80
Date: 2009-11-08 10:09:36 UTC
From: JIM HENDERSON
Topic: 1263 Message: 1304

9.30 net conditions very poor this end could just about make out under the noise, ended up listening to the station LF of the freq who later QSYd because he was getting interferance from a lot of QRP stations on 3690 and did not understand why they were on that freq.
May be the RSGB should be contacted and asked if they could push the fact that 3690 is the center of th QRP section of the band.
As Sunday is the busiest time on 80mt perhaps a net one evening in the week would be better.

73 Jim G1AOZ

--- On Sun, 8/11/09, DAVID CLENCH <david.clench@...> wrote:

From: DAVID CLENCH <david.clench@...>
Subject: Re: [mkars80] Re: net
To: mkars80@...
Date: Sunday, 8 November, 2009, 9:55

9:30 net conditions much worse. Very strong station LF of 3.690. At 09:50 an OZ station started calling cq so I hung up my headphones. Called in a couple of times but was not heard. I heard G6ALU/G4MDR/ G8JWT/G3GJA but all were very much down on the 07:30 net.

---------- --------- --------- --
From: Ron Vingerling <ronvingerling@ ymail.com>
To: mkars80@yahoogroups .co.uk
Sent: Sunday, 8 November, 2009 8:05:43
Subject: Re: [mkars80] Re: net

Unfortunately I lost you guys because of heavy QRM from various contests on the continent. Anyway, I have added another international MKARS80 to the log, Steve, and with 50 and 5 Watts this time. Thanks, enjoy the net on 3720.

73 Ron pa0rcl

---------- --------- --------- --
From: mark <mw3hqt@...>
To: mkars80@yahoogroups .co.uk
Sent: Sun, 8 November, 2009 8:51:09
Subject: [mkars80] Re: net

well spoke to steve g6alu briefly but cant here nothing on 3.719 and i could here g4mdr ok on 3.690
mark 2w0jmk

--- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
>
> On air now try 3.719MHz.

>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@ ...>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690
>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
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> > Hi All
> > Can I assume the net will be at 09:30 tomorrow morning? I am happy to
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> >
> > _____ _____ _____ __
> > From: DAVID CLENCH <david.clench@ ...>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 23:42:42
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve,
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> > I am flexible regarding time of net on Sunday. I think 07.30 is a good
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> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 16:03:32
> > Subject: Re: [mkars80] problem
> >
> > Hello David,
> >
> > We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> > been
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> >
> > I will be up early on Sunday so if any one wants to try earlier (7:30
> > UTC
> > onwards) please let me know. We had quite a few on last week's net but
> > all
> > sufered from QRM.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
> >
> > Steve
> >
> > No I repaired the leg of the device. It's now back in its box and been
> > on
> > air this evening. I hope to be on the net on Sunday if it is on.
> >
> > Thanks again
> >
> > Dave G0BVV
> >
> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 22:18:03
> > Subject: Re: [mkars80] problem
> >
> > David,
> >
> > Please confirm you need a new transistor.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > On closer inspection I found one of the legs of Q1 had fractured,
> > probably
> > when I removed the pcb from the case.
> > Thanks for your promp and helpful advice.

> >
> > Regards
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 20:08:31
> > Subject: Re: [mkars80] problem
> >
> > Dave,
> >
> > Not too sure if re-soldering caused the problem, when you say "loose"
> > was
> > the track broken to the transistor legs or perhaps the transistor legs
> > themselves have broken. Inspect it carefully, if you need a new
> > transistor
> > please email me your address and I will put one in the post.
> >
> > Regards,
> > Steve G6ALU
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> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 11:53 AM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > I have just fitted the mod caps you kindly sent me and the drift
> > problem is
> > now history. However when refitting the board to the case I noticed
> > that the
> > solder joints to Q1 were loose and so I reflowed them using a larger
> > iron.
> > Now when I transmit the led stays on, I can hear my voice in the
> > speaker and
> > there is no rf output. The voltages on Q1 measure ok. Have I damaged
> > Q1?
> >
> > Regards
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00

> > Subject: Re: [mkars80] UPDATE
> >
> > That makes you grin doesn't it... the guy at the other end is probably
> > using
> > >Â£1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
> > job,
> > what's more you have a good chance of repairing it should it go wrong.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE
> >
> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> > >
> > >
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> > >
> > > Yahoo! Groups Links
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> >
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> > Checked by AVG - www.avg.com
> > Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> > 10/28/09
> > 09:34:00
> >
> > [Non-text portions of this message have been removed]
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> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> > 11/02/09
> > 07:51:00
> >
> > [Non-text portions of this message have been removed]
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> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> > 11/03/09
> > 07:36:00
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> Yahoo! Groups Links
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
> 07:38:00
>

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1305. Re: [mkars80] Re: net

Yahoo group: mkars80
Date: 2009-11-08 14:13:05 UTC
From: Mikael Andersson
Topic: 1263 Message: 1305

Hi guys.

Tried to listen for you on the net this morning, but nothing :(

On the other hand i worked a bunch of contest stations last night with my Mkars80, so i guess it would be nice to give it a try after the sun goes down :)

Anyone on at 20:00 UTC ? I will be on 3690+ - QRM

SA3AZK / Mike

----- Original Message -----
From: JIM HENDERSON
To: mkars80@yahoogroups.co.uk
Sent: Sunday, November 08, 2009 11:09 AM
Subject: Re: [mkars80] Re: net

9.30 net conditions very poor this end could just about make out under the noise,
ended up listening to the station LF of the freq who later QSYd because he was getting interferance from a lot of QRP stations on 3690 and did not understand why they were on that freq.
May be the RSGB should be contacted and asked if they could push the fact that 3690 is the center of th QRP section of the band.
As Sunday is the busiest time on 80mt perhaps a net one evening in the week would be better.

73 Jim G1AOZ

--- On Sun, 8/11/09, DAVID CLENCH <david.clench@...m> wrote:

From: DAVID CLENCH <david.clench@...>
Subject: Re: [mkars80] Re: net
To: mkars80@...
Date: Sunday, 8 November, 2009, 9:55

9:30 net conditions much worse. Very strong station LF of 3.690. At 09:50 an OZ station started calling cq so I hung up my headphones. Called in a couple of times but was not heard. I heard G6ALU/G4MDR/ G8JWT/G3GJA but all were very much down on the 07:30 net.

---------- --------- --------- --
From: Ron Vingerling <ronvingerling@ ymail.com>
To: mkars80@yahoogroups .co.uk
Sent: Sunday, 8 November, 2009 8:05:43
Subject: Re: [mkars80] Re: net

Unfortunately I lost you guys because of heavy QRM from various contests on the continent. Anyway, I have added another international MKARS80 to the log, Steve, and with 50 and 5 Watts this time. Thanks, enjoy the net on 3720.

73 Ron pa0rcl

_____ _____ _____ __
From: mark <mw3hqt@...>
To: mkars80@yahoogroups .co.uk
Sent: Sun, 8 November, 2009 8:51:09
Subject: [mkars80] Re: net

well spoke to steve g6alu briefly but cant here nothing on 3.719 and i could here g4mdr ok on 3.690
mark 2w0jmk

--- In mkars80@yahoogroups .co.uk, "Steve Drury" <g6alu@...> wrote:
>
> On air now try 3.719MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John Housego" <John.Housego1@ ...>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Saturday, November 07, 2009 9:51 PM
> Subject: Re: [mkars80] net
>
>
> Hello Dave,
>
> I shall give it a go at 07:30 tomorrow on 3.690
>
> 73 de John (M0TIF)
>
> On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:
>
> >
> >
> > Hi All
> > Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> > be around at 07:30 but will have a lie in if it's 09:30.
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: DAVID CLENCH <david.clench@ ...>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 23:42:42
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve,
> >
> > I am flexible regarding time of net on Sunday. I think 07.30 is a good
> > time but will go with the flow.
> >

> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Friday, 6 November, 2009 16:03:32
> > Subject: Re: [mkars80] problem
> >
> > Hello David,
> >
> > We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> > been
> > pinched by the other nets!
> >
> > I will be up early on Sunday so if any one wants to try earlier (7:30
> > UTC
> > onwards) please let me know. We had quite a few on last week's net but
> > all
> > sufered from QRM.
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> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 10:37 PM
> > Subject: Re: [mkars80] problem
> >
> > Steve
> >
> > No I repaired the leg of the device. It's now back in its box and been
> > on
> > air this evening. I hope to be on the net on Sunday if it is on.
> >
> > Thanks again
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 22:18:03
> > Subject: Re: [mkars80] problem
> >
> > David,
> >
> > Please confirm you need a new transistor.
> >
> > Steve G6ALU

> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 8:50 PM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > On closer inspection I found one of the legs of Q1 had fractured,
> > probably
> > when I removed the pcb from the case.
> > Thanks for your promp and helpful advice.
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> > Regards
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> > Dave G0BVV
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> > __________ _________ _________ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Tuesday, 3 November, 2009 20:08:31
> > Subject: Re: [mkars80] problem
> >
> > Dave,
> >
> > Not too sure if re-soldering caused the problem, when you say "loose"
> > was
> > the track broken to the transistor legs or perhaps the transistor legs
> > themselves have broken. Inspect it carefully, if you need a new
> > transistor
> > please email me your address and I will put one in the post.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "DAVID CLENCH" <david.clench@ btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Tuesday, November 03, 2009 11:53 AM
> > Subject: Re: [mkars80] problem
> >
> > Hi Steve
> >
> > I have just fitted the mod caps you kindly sent me and the drift
> > problem is
> > now history. However when refitting the board to the case I noticed
> > that the
> > solder joints to Q1 were loose and so I reflowed them using a larger
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> > Now when I transmit the led stays on, I can hear my voice in the
> > speaker and
> > there is no rf output. The voltages on Q1 measure ok. Have I damaged
> > Q1?
> >
> > Regards
> >
> > Dave G0BVV
> >
> > _____ _____ _____ __
> > From: Steve Drury <g6alu@tiscali. co.uk>
> > To: mkars80@yahoogroups .co.uk
> > Sent: Thursday, 29 October, 2009 21:55:00
> > Subject: Re: [mkars80] UPDATE
> >
> > That makes you grin doesn't it... the guy at the other end is probably
> > using
> > >Â£1K worth of commercial radio and doesn't have a clue how it works!
> > You
> > have built your own for a fraction of the price and it does the same
> > job,
> > what's more you have a good chance of repairing it should it go wrong.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: <m5zzr@btinternet. com>
> > To: <mkars80@yahoogroup s .co.uk>
> > Sent: Thursday, October 29, 2009 12:15 AM
> > Subject: [mkars80] UPDATE
> >
> > > I've had a good few QSOs now - all daytime UK stations so far.
> > Reports
> > > have all been good with comments like 'it sounds like an ordinary
> > black
> > > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> > >
> > >
> > >
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> > > Yahoo! Groups Links
> > >
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> >
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> > Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> > 10/28/09
> > 09:34:00
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> > [Non-text portions of this message have been removed]
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> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> > 11/02/09
> > 07:51:00
> >
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> >
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> >
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> > Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> > 11/03/09
> > 07:36:00
> >
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Yahoo! Groups Links

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1306. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-09 23:50:37 UTC
From: Clive Reynolds
Topic: 1263 Message: 1306

Hi Steve

I've noticed an odd quirk with my kit when tuned to 3.775MHz +/- 1kHz.

It takes longer for the huff n puff to lock up than usual when initially setting the frequency.

It only stays locked for a few seconds and may take up to 20 seconds to lock again. There are no - bars displayed before it unlocks; it goes straight to the U.

It then carries on with this locked for a few seconds and then unlocked for 10 - 20 seconds cycle.

As soon as you move away from 3.774 to 3.776 it behaves normally. Doesn't make any difference where the fine tune control is if the main tuning is used to bring it back to the same range.

Firmware is v2.4. I seem to remember an earlier reference to a similar problem but I can't find the message.

Is it just mine or has anyone else seen this behaviour?

Clive G3GJA

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, November 08, 2009 8:33 AM
Subject: Re: [mkars80] net

QRT at the moment, will try on 3.690 @ 09:30.

Steve G6ALU

----- Original Message -----
From: "Clive Reynolds" <clive@...>
To: <mkars80@...>
Sent: Sunday, November 08, 2009 8:23 AM
Subject: Re: [mkars80] net

Hi Steve

Where are you now? 3.719 & 3.691 seem to be full

Clive G3GJA (nr Hull)

----- Original Message -----
From: Steve Drury
To: mkars80@...

Sent: Sunday, November 08, 2009 7:39 AM
Subject: Re: [mkars80] net

On air now try 3.719MHz.

Steve G6ALU

----- Original Message -----
From: "John Housego" <John.Housego1@...>
To: <mkars80@...>
Sent: Saturday, November 07, 2009 9:51 PM
Subject: Re: [mkars80] net

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
>
> Dave G0BVV
>
> _____
> From: DAVID CLENCH <david.clench@btinternet.com>
> To: mkars80@...
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
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> Hi Steve,
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> I am flexible regarding time of net on Sunday. I think 07.30 is a good
> time but will go with the flow.
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> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
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> Hello David,
>
> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
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> I will be up early on Sunday so if any one wants to try earlier (7:30
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> Regards,
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> ----- Original Message -----
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> Sent: Tuesday, November 03, 2009 10:37 PM
> Subject: Re: [mkars80] problem
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> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 22:18:03
> Subject: Re: [mkars80] problem
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> David,
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> From: "DAVID CLENCH" <david.clench@ btinternet. com>
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> ---------- --------- --------- --
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk

> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
>
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> using
> >£1K worth of commercial radio and doesn't have a clue how it works!
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> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
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> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
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> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
> black
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> 07:51:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
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>
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
07:38:00

HESH Computer Services Ltd
12 Louis Pearlman Centre
Goulton Street
Hull HU3 4DL

Tel: 0845 1662725
Web: www.hesh.co.uk
Registered in England No. 3003479
VAT No. 647 3679 95

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Yahoo! Groups Links

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[Non-text portions of this message have been removed]

1307. MKARS80 Australian users

Yahoo group: mkars80
Date: 2009-11-10 04:03:52 UTC
From: vk2jdp
Topic: 1307 Message: 1307

I have received a couple of emails from Australian users. Are there any more out there - or even non-users just thinking about it? I would like to set up a scheduled net if possible.

Last night, the conditions were quite good on 80m, with a number of Foundation licensees (10W max) coming in at S7-S9. The longest path was ~1100km, but there were 2 Tasmanian stations (~980km) that were S9+. I know that Foundationists(!) cannot construct their own transmitters but there might be a few Standard or Advanced operators keen to form a <real> QRP net.

And yes, I know that there are already a couple of QRP nets, but they don't often run QRP except on CW. Either that, or they are all using 3 element yagis on 80m LOL

Regards,

Jon Point
VK2JDP

1308. Re: **SPAM** [mkars80] MKARS80 Australian users

Yahoo group: mkars80
Date: 2009-11-10 16:16:15 UTC
From: Kay & John Hale
Topic: 1308 Message: 1308

Hi Jon,

Just to let you know that I built the second one in Australia about 18 months ago.

Played with it a lot for a long time after building but it has developed a fault after I displayed it at a field day. Have tried once to fix it. Need to have another go.

I'm a member of the QRP club and used it once in a QRP contest in which I think I came second in the SSB division.

I'm in Sydney. Furtherest contact has been to Rockhampton in Qld.

73 de John VK2ASU

----- Original Message -----
From: vk2jdp
To: mkars80@...
Sent: Tuesday, November 10, 2009 4:03 AM
Subject: **SPAM** [mkars80] MKARS80 Australian users

I have received a couple of emails from Australian users. Are there any more out there - or even non-users just thinking about it? I would like to set up a scheduled net if possible.

Last night, the conditions were quite good on 80m, with a number of Foundation licensees (10W max) coming in at S7-S9. The longest path was ~1100km, but there were 2 Tasmanian stations (~980km) that were S9+. I know that Foundationists(!) cannot construct their own transmitters but there might be a few Standard or Advanced operators keen to form a <real> QRP net.

And yes, I know that there are already a couple of QRP nets, but they don't often run QRP except on CW. Either that, or they are all using 3 element yagis on 80m LOL

Regards,

Jon Point
VK2JDP

E-mail message checked by Internet Security (6.0.1.441)
Database version: 6.13670
http://www.pctools.com/internet-security/

E-mail message checked by Internet Security (6.0.1.441)
Database version: 6.13670
http://www.pctools.com/en/internet-security/

[Non-text portions of this message have been removed]

1309. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-10 06:54:22 UTC
From: Steve Drury
Topic: 1263 Message: 1309

Clive,

You have found a little bug in the firmware - I will get round to fixing it some day, if you use that frequency often let me know and it will be fixed sooner than later.

Steve G6ALU

----- Original Message -----
From: "Clive Reynolds" <clive@...>
To: <mkars80@...>
Sent: Monday, November 09, 2009 11:50 PM
Subject: Re: [mkars80] net

Hi Steve

I've noticed an odd quirk with my kit when tuned to 3.775MHz +/- 1kHz.

It takes longer for the huff n puff to lock up than usual when initially setting the frequency.

It only stays locked for a few seconds and may take up to 20 seconds to lock again. There are no - bars displayed before it unlocks; it goes straight to the U.

It then carries on with this locked for a few seconds and then unlocked for 10 - 20 seconds cycle.

As soon as you move away from 3.774 to 3.776 it behaves normally. Doesn't make any difference where the fine tune control is if the main tuning is used to bring it back to the same range.

Firmware is v2.4. I seem to remember an earlier reference to a similar problem but I can't find the message.

Is it just mine or has anyone else seen this behaviour?

Clive G3GJA

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, November 08, 2009 8:33 AM
Subject: Re: [mkars80] net

QRT at the moment, will try on 3.690 @ 09:30.

Steve G6ALU

----- Original Message -----
From: "Clive Reynolds" <clive@...>
To: <mkars80@...>
Sent: Sunday, November 08, 2009 8:23 AM
Subject: Re: [mkars80] net

Hi Steve

Where are you now? 3.719 & 3.691 seem to be full

Clive G3GJA (nr Hull)

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, November 08, 2009 7:39 AM
Subject: Re: [mkars80] net

On air now try 3.719MHz.

Steve G6ALU

----- Original Message -----
From: "John Housego" <John.Housego1@...>
To: <mkars80@...>
Sent: Saturday, November 07, 2009 9:51 PM
Subject: Re: [mkars80] net

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
>
> Dave G0BVV
>
> _____
> From: DAVID CLENCH <david.clench@...>
> To: mkars80@...
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
>
> Hi Steve,
>
> I am flexible regarding time of net on Sunday. I think 07.30 is a good
> time but will go with the flow.

>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
> Subject: Re: [mkars80] problem
>
> Hello David,
>
> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> been
> pinched by the other nets!
>
> I will be up early on Sunday so if any one wants to try earlier (7:30
> UTC
> onwards) please let me know. We had quite a few on last week's net but
> all
> sufered from QRM.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 10:37 PM
> Subject: Re: [mkars80] problem
>
> Steve
>
> No I repaired the leg of the device. It's now back in its box and been
> on
> air this evening. I hope to be on the net on Sunday if it is on.
>
> Thanks again
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 22:18:03
> Subject: Re: [mkars80] problem
>
> David,
>
> Please confirm you need a new transistor.
>

> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 8:50 PM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> On closer inspection I found one of the legs of Q1 had fractured,
> probably
> when I removed the pcb from the case.
> Thanks for your promp and helpful advice.
>
> Regards
>
> Dave G0BVV
>
> __________ _________ _________ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 20:08:31
> Subject: Re: [mkars80] problem
>
> Dave,
>
> Not too sure if re-soldering caused the problem, when you say "loose"
> was
> the track broken to the transistor legs or perhaps the transistor legs
> themselves have broken. Inspect it carefully, if you need a new
> transistor
> please email me your address and I will put one in the post.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 11:53 AM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> I have just fitted the mod caps you kindly sent me and the drift
> problem is
> now history. However when refitting the board to the case I noticed
> that the
> solder joints to Q1 were loose and so I reflowed them using a larger

> iron.
> Now when I transmit the led stays on, I can hear my voice in the
> speaker and
> there is no rf output. The voltages on Q1 measure ok. Have I damaged
> Q1?
>
> Regards
>
> Dave G0BVV
>
> ___ ___ ___ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
>
> That makes you grin doesn't it... the guy at the other end is probably
> using
> >£1K worth of commercial radio and doesn't have a clue how it works!
> You
> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
>
> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
> black
> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> >
> >
> >
> > ---
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> ---
>
> No virus found in this incoming message.

> Checked by AVG - www.avg.com
> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> 10/28/09
> 09:34:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.45/2476 - Release Date:
> 11/02/09
> 07:51:00
>
> [Non-text portions of this message have been removed]
>
> ------------ --------- --------- ------
>
> Yahoo! Groups Links
>
> ------------ --------- --------- --------- --------- --------- -
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.47/2478 - Release Date:
> 11/03/09
> 07:36:00
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>
>
>
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
07:38:00

HESH Computer Services Ltd
12 Louis Pearlman Centre
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Hull HU3 4DL

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Web: www.hesh.co.uk
Registered in England No. 3003479
VAT No. 647 3679 95

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Yahoo! Groups Links

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Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.57/2492 - Release Date: 11/09/09 12:11:00

1310. Re: [mkars80] net

Yahoo group: mkars80
Date: 2009-11-10 11:48:46 UTC
From: Clive Reynolds
Topic: 1263 Message: 1310

Ok Steve, if they all do it I can live with it and wait for the next revision as I don't use that frequency regularly.

Thanks

Clive G3GJA

----- Original Message -----
From: Steve Drury
To: mkars80@....uk
Sent: Tuesday, November 10, 2009 6:54 AM
Subject: Re: [mkars80] net

Clive,

You have found a little bug in the firmware - I will get round to fixing it some day, if you use that frequency often let me know and it will be fixed sooner than later.

Steve G6ALU

----- Original Message -----
From: "Clive Reynolds" <clive@...>
To: <mkars80@...>
Sent: Monday, November 09, 2009 11:50 PM
Subject: Re: [mkars80] net

Hi Steve

I've noticed an odd quirk with my kit when tuned to 3.775MHz +/- 1kHz.

It takes longer for the huff n puff to lock up than usual when initially setting the frequency.

It only stays locked for a few seconds and may take up to 20 seconds to lock again. There are no - bars displayed before it unlocks; it goes straight to the U.

It then carries on with this locked for a few seconds and then unlocked for 10 - 20 seconds cycle.

As soon as you move away from 3.774 to 3.776 it behaves normally. Doesn't make any difference where the fine tune control is if the main tuning is used to bring it back to the same range.

Firmware is v2.4. I seem to remember an earlier reference to a similar problem but I can't find the message.

Is it just mine or has anyone else seen this behaviour?

Clive G3GJA

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, November 08, 2009 8:33 AM
Subject: Re: [mkars80] net

QRT at the moment, will try on 3.690 @ 09:30.

Steve G6ALU

----- Original Message -----
From: "Clive Reynolds" <clive@...>
To: <mkars80@...>
Sent: Sunday, November 08, 2009 8:23 AM
Subject: Re: [mkars80] net

Hi Steve

Where are you now? 3.719 & 3.691 seem to be full

Clive G3GJA (nr Hull)

----- Original Message -----
From: Steve Drury
To: mkars80@yahoogroups.co.uk
Sent: Sunday, November 08, 2009 7:39 AM
Subject: Re: [mkars80] net

On air now try 3.719MHz.

Steve G6ALU

----- Original Message -----
From: "John Housego" <John.Housego1@...>
To: <mkars80@...>
Sent: Saturday, November 07, 2009 9:51 PM
Subject: Re: [mkars80] net

Hello Dave,

I shall give it a go at 07:30 tomorrow on 3.690

73 de John (M0TIF)

On Sat, 2009-11-07 at 13:41 -0800, DAVID CLENCH wrote:

>
>
> Hi All
> Can I assume the net will be at 09:30 tomorrow morning? I am happy to
> be around at 07:30 but will have a lie in if it's 09:30.
>
> Dave G0BVV

>
> _____
> From: DAVID CLENCH <david.clench@...>
> To: mkars80@...
> Sent: Friday, 6 November, 2009 23:42:42
> Subject: Re: [mkars80] problem
>
> Hi Steve,
>
> I am flexible regarding time of net on Sunday. I think 07.30 is a good
> time but will go with the flow.
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Friday, 6 November, 2009 16:03:32
> Subject: Re: [mkars80] problem
>
> Hello David,
>
> We should be on this Sunday, 3.690MHz @ 9:30 UTC as long as it hasn't
> been
> pinched by the other nets!
>
> I will be up early on Sunday so if any one wants to try earlier (7:30
> UTC
> onwards) please let me know. We had quite a few on last week's net but
> all
> sufered from QRM.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 10:37 PM
> Subject: Re: [mkars80] problem
>
> Steve
>
> No I repaired the leg of the device. It's now back in its box and been
> on
> air this evening. I hope to be on the net on Sunday if it is on.
>
> Thanks again
>
> Dave G0BVV

>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 22:18:03
> Subject: Re: [mkars80] problem
>
> David,
>
> Please confirm you need a new transistor.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 8:50 PM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> On closer inspection I found one of the legs of Q1 had fractured,
> probably
> when I removed the pcb from the case.
> Thanks for your promp and helpful advice.
>
> Regards
>
> Dave G0BVV
>
> _____ _____ _____ __
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Tuesday, 3 November, 2009 20:08:31
> Subject: Re: [mkars80] problem
>
> Dave,
>
> Not too sure if re-soldering caused the problem, when you say "loose"
> was
> the track broken to the transistor legs or perhaps the transistor legs
> themselves have broken. Inspect it carefully, if you need a new
> transistor
> please email me your address and I will put one in the post.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@ btinternet. com>

> To: <mkars80@yahoogroup s .co.uk>
> Sent: Tuesday, November 03, 2009 11:53 AM
> Subject: Re: [mkars80] problem
>
> Hi Steve
>
> I have just fitted the mod caps you kindly sent me and the drift
> problem is
> now history. However when refitting the board to the case I noticed
> that the
> solder joints to Q1 were loose and so I reflowed them using a larger
> iron.
> Now when I transmit the led stays on, I can hear my voice in the
> speaker and
> there is no rf output. The voltages on Q1 measure ok. Have I damaged
> Q1?
>
> Regards
>
> Dave G0BVV
>
> ---------- --------- --------- --
> From: Steve Drury <g6alu@tiscali. co.uk>
> To: mkars80@yahoogroups .co.uk
> Sent: Thursday, 29 October, 2009 21:55:00
> Subject: Re: [mkars80] UPDATE
>
> That makes you grin doesn't it... the guy at the other end is probably
> using
> >£1K worth of commercial radio and doesn't have a clue how it works!
> You
> have built your own for a fraction of the price and it does the same
> job,
> what's more you have a good chance of repairing it should it go wrong.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <m5zzr@btinternet. com>
> To: <mkars80@yahoogroup s .co.uk>
> Sent: Thursday, October 29, 2009 12:15 AM
> Subject: [mkars80] UPDATE
>
> > I've had a good few QSOs now - all daytime UK stations so far.
> Reports
> > have all been good with comments like 'it sounds like an ordinary
> black
> > box transceiver' . Microphone is an Icom HM-103. Mel. M5ZZR.
> >
> >

> >
> > ------------ --------- --------- ------
> >
> > Yahoo! Groups Links
> >
> >
> >
>
> ------------ --------- --------- --------- --------- --------- -
>
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> Version: 8.5.423 / Virus Database: 270.14.36/2465 - Release Date:
> 10/28/09
> 09:34:00
>
> [Non-text portions of this message have been removed]
>
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> Yahoo! Groups Links
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>
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>
>
>
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.53/2486 - Release Date: 11/07/09
07:38:00

HESH Computer Services Ltd
12 Louis Pearlman Centre
Goulton Street
Hull HU3 4DL

Tel: 0845 1662725
Web: www.hesh.co.uk
Registered in England No. 3003479
VAT No. 647 3679 95

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.57/2492 - Release Date: 11/09/09
12:11:00

HESH Computer Services Ltd
12 Louis Pearlman Centre
Goulton Street
Hull HU3 4DL

Tel: 0845 1662725
Web: www.hesh.co.uk
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[Non-text portions of this message have been removed]

1311. Buzzing when transmitting

Yahoo group: mkars80
Date: 2009-11-12 23:47:06 UTC
From: yaesu85
Topic: 1311 Message: 1311

This is my first SSB kit I have built but have built many CW transceivers. I finished building the kit last week and finished aligning the radio last night. I am able to receive very well across the entire 80m band but I am having issues transmitting. I have set up my FT-450 to monitor the transmission of the MKARS80 but all I hear is a buzzing sound, similar to a CW signal. I have measured the vfo and bfo and both are good. I used an oscilloscope and freq counter to verify the VFO and BFO. I used to O-scope to observe my transmit signal and I have a sine wave at the correct transmit frequency. I have never looked at a SSB signal during transmit but I thought the sine wave would change in response to my voice? I also adjusted the mixer balance R59 and c103 by observing the S-Meter on my FT-450 while the PTT and microphone connections were grounded for the lowest setting.
I had a dynamic microphone available so I removed r17 to use it. ALl of the transmitting has been into either a 50ohm dummy load or my dipole.
I adjusted the band pass filter so it looks like the picture but I was wondering if it should be done a different way?
I have also performed a visual inspection of all components and for any other obvious imperfections.

Does anyone have an idea of where I could start looking?

1312. Buzzing when transmitting

Yahoo group: mkars80
Date: 2009-11-12 23:45:24 UTC
From: yaesu85
Topic: 1311 Message: 1312

This is my first SSB kit I have built but have built many CW transceivers. I finished building the kit last week and finished aligning the radio last night. I am able to receive very well across the entire 80m band but I am having issues transmitting. I have set up my FT-450 to monitor the transmission of the MKARS80 but all I hear is a buzzing sound, similar to a CW signal. I have measured the vfo and bfo and both are good. I used an oscilloscope and freq counter to verify the VFO and BFO. I used to O-scope to observe my transmit signal and I have a sine wave at the correct transmit frequency. I have never looked at a SSB signal during transmit but I thought the sine wave would change in response to my voice? I also adjusted the mixer balance R59 and c103 by observing the S-Meter on my FT-450 while the PTT and microphone connections were grounded for the lowest setting.
I had a dynamic microphone available so I removed r17 to use it. ALl of the transmitting has been into either a 50ohm dummy load or my dipole.
I adjusted the band pass filter so it looks like the picture but I was wondering if it should be done a different way?
I have also performed a visual inspection of all components and for any other obvious imperfections.

Does anyone have an idea of where I could start looking?

1313. Buzzing when transmitting sounds like oscillation

Yahoo group: mkars80
Date: 2009-11-13 04:21:45 UTC
From: vk2jdp
Topic: 1311 Message: 1313

You may have a stability problem. Before you can null the carrier, you need to adjust the PA bias.

Once I tried to set the bias, the PA oscillated because my layout put my antenna tuner near the bandpass filter. A small piece of PCB as a shield fixed it. Before I fixed the oscillation, any attempt to set the PA bias resulted in oscillation, as soon as the mosfet's conduction threshold was reached :-(

If you monitor the MK' on your other rig, tune-in to the MK's carrier to get a 800Hz-1.5kHz tone in the receiver and adjust the bal mod for minimum signal. If this doesn't help, you may have another problem.

If you monitor the waveform on a CRO with a fast timebase (50ns), you should a sinewave proportional in amplitude to the signal into the mic. No mic signal should equal no sinewave (or a very small one). If you slow the timebase down to 1ms, you should see the voice envelope.

Hope this helps ;-)

Regards,

Jonathan Point
VK2JDP

--- In mkars80@yahoogroups.co.uk, "yaesu85" <yaesu85@...> wrote:
>
> This is my first SSB kit I have built but have built many CW transceivers. I finished building the kit last week and finished aligning the radio last night. I am able to receive very well across the entire 80m band but I am having issues transmitting. I have set up my FT-450 to monitor the transmission of the MKARS80 but all I hear is a buzzing sound, similar to a CW signal. I have measured the vfo and bfo and both are good. I used an oscilloscope and freq counter to verify the VFO and BFO. I used to O-scope to observe my transmit signal and I have a sine wave at the correct transmit frequency. I have never looked at a SSB signal during transmit but I thought the sine wave would change in response to my voice? I also adjusted the mixer balance R59 and c103 by observing the S-Meter on my FT-450 while the PTT and microphone connections were grounded for the lowest setting.
> I had a dynamic microphone available so I removed r17 to use it. ALl of the transmitting has been into either a 50ohm dummy load or my dipole.
> I adjusted the band pass filter so it looks like the picture but I was wondering if it should be done a different way?
> I have also performed a visual inspection of all components and for any other obvious imperfections.
>
> Does anyone have an idea of where I could start looking?
>

1314. Re: [mkars80] Buzzing when transmitting

Yahoo group: mkars80
Date: 2009-11-13 06:55:04 UTC
From: Steve Drury
Topic: 1311 Message: 1314

If you are using a "standard" setup with the box supplied you shouldn't get any instability with it correctly aligned - one time I did notice this though was when the BFO was set to the filter centre frequency but you have set this correctly at 10.000MHz?

You should be able to get a good null certainly less than 100mV of waveform on the drain of the output transistor, if it isn't possible to achieve this check that the mixer transformers are soldered correctly and if still a problem check the diodes are OK and the transformer is wound correctly.

Make sure you are using a screened microphone lead with the braid grounded also that your output coax is correctly terminated. When setting the bias and mixer ballance you can use an unused mono jack plug in the microphone socket, this shorts out the microphone and puts it into TX.

Can you hear anything from the loudspeaker when transmitting?

I can't think of anything else at the moment.

Steve G6ALU

----- Original Message -----
From: "yaesu85" <yaesu85@...>
To: <mkars80@...>
Sent: Thursday, November 12, 2009 11:47 PM
Subject: [mkars80] Buzzing when transmitting

> This is my first SSB kit I have built but have built many CW transceivers.
> I finished building the kit last week and finished aligning the radio last
> night. I am able to receive very well across the entire 80m band but I am
> having issues transmitting. I have set up my FT-450 to monitor the
> transmission of the MKARS80 but all I hear is a buzzing sound, similar to
> a CW signal. I have measured the vfo and bfo and both are good. I used an
> oscilloscope and freq counter to verify the VFO and BFO. I used to O-scope
> to observe my transmit signal and I have a sine wave at the correct
> transmit frequency. I have never looked at a SSB signal during transmit
> but I thought the sine wave would change in response to my voice? I also
> adjusted the mixer balance R59 and c103 by observing the S-Meter on my
> FT-450 while the PTT and microphone connections were grounded for the
> lowest setting.
> I had a dynamic microphone available so I removed r17 to use it. ALl of
> the transmitting has been into either a 50ohm dummy load or my dipole.
> I adjusted the band pass filter so it looks like the picture but I was
> wondering if it should be done a different way?
> I have also performed a visual inspection of all components and for any
> other obvious imperfections.
>

> Does anyone have an idea of where I could start looking?
>
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.425 / Virus Database: 270.14.61/2498 - Release Date: 11/12/09
07:38:00

1315. ANOTHER MKARS 80 ON AIR

Yahoo group: mkars80
Date: 2009-11-13 23:26:56 UTC
From: g4pqp
Topic: 1315 Message: 1315

I have finally finished and boxed up my MKARS 80 . I followed Steve's constriction procedure to the letter and the project went together without a hitch , worked first time . The finished item looks very professional thanks to the drilling templates and panel overlays . Received audio is excellent and I have received many complements regarding the modulation (using electret mic) . O/P is 7 watts @ 3.600 MHz into a good 50 ohm match (5 Watts minimum at the top end of the band) I have worked many stations in the U.K and Europe . I have received some very good reports with my homebrew A.T.U. and homebrew G5RV which is up at 70 feet . So to sum it up , what can I say ?. Such an excellent kit . It has just the right mix of simplicity and complexity to make it realistically reproducible and a practical project for the average constructor .In operation it is TRULLY REMARKABLE, very stable and easy to use . The L.C.D. frequency readout adds real professionalism and is something one would only usually find in commercial equipment costing a good deal more money than this kit . It is extremely good value for money and does everything and more than it says on the tin . I have found the project to be very rewarding both in the construction of the kit and in the fact that I can go on air with a homebrew station . Reading through the postings on this site it seems that the main factor for the kit not working first time is possibly due to bad / dry joints on the transformers which use very fine EC wire . I would suggest that it is worthwhile to check the continuity of each winding as you solder the transformers in . Personally I am not happy with using lead free solder . I like to use good quality lead tin alloy 0.7mm multicore . I look forward to meeting you all on the Sunday morning nets when time allows (3.690 around 0900 hrs) . Finally thank you to Steve G6ALU for his hard work in the design ,development and backup with this remarkable kit . Wouldn't a kit for a matching linear amp be so good , nudge ,nudge , wink , wink . !!!!! 73`s to one and all , de Phil (G4PQPP) , Cromer Norfolk .

1316. Re: [mkars80] ANOTHER MKARS 80 ON AIR

Yahoo group: mkars80
Date: 2009-11-14 06:53:48 UTC
From: Steve Drury
Topic: 1315 Message: 1316

Thanks for the comments Phil, we like happy customers!

The Sunday morning net is normally around 9:30 AM, I will listen out for
you.
Steve G6ALU

----- Original Message -----
From: "g4pqp" <g4pqp@...>
To: <mkars80@...>
Sent: Friday, November 13, 2009 11:26 PM
Subject: [mkars80] ANOTHER MKARS 80 ON AIR

>
>
>
> I have finally finished and boxed up my MKARS 80 . I followed Steve's
> constriction procedure to the letter and the project went together without
> a hitch , worked first time . The finished item looks very professional
> thanks to the drilling templates and panel overlays . Received audio is
> excellent and I have received many complements regarding the modulation
> (using electret mic) . O/P is 7 watts @ 3.600 MHz into a good 50 ohm
> match (5 Watts minimum at the top end of the band) I have worked many
> stations in the U.K and Europe . I have received some very good reports
> with my homebrew A.T.U. and homebrew G5RV which is up at 70 feet . So to
> sum it up , what can I say ?. Such an excellent kit . It has just the
> right mix of simplicity and complexity to make it realistically
> reproducible and a practical project for the average constructor .In
> operation it is TRULLY REMARKABLE, very stable and easy to use . The
> L.C.D. frequency readout adds real professionalism and is something o
> ne would only usually find in commercial equipment costing a good deal
> more money than this kit . It is extremely good value for money and does
> everything and more than it says on the tin . I have found the project to
> be very rewarding both in the construction of the kit and in the fact that
> I can go on air with a homebrew station . Reading through the postings on
> this site it seems that the main factor for the kit not working first time
> is possibly due to bad / dry joints on the transformers which use very
> fine EC wire . I would suggest that it is worthwhile to check the
> continuity of each winding as you solder the transformers in . Personally
> I am not happy with using lead free solder . I like to use good quality
> lead tin alloy 0.7mm multicore . I look forward to meeting you all on
> the Sunday morning nets when time allows (3.690 around 0900 hrs) .
> Finally thank you to Steve G6ALU for his hard work in the design
> ,development and backup with this remarkable kit . Woul
> dn't a kit for a matching linear amp be so good , nudge ,nudge , wink ,
> wink . !!!!! 73`s to one and all , de Phil (G4PQPP) , Cromer Norfolk .
>

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> Yahoo! Groups Links
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1317. Another MKARS80 on-air downunder

Yahoo group: mkars80
Date: 2009-11-15 12:12:12 UTC
From: vk2jdp
Topic: 1317 Message: 1317

Steve,

Just a quick note to thank you for producing this wonderful radio. As you can see from the photos, I didn't end up using the supplied case, but built it into a self-contained portable unit, together with a tuneup oscillator, an antenna tuner and an LED SWR unit. Just have to make the battery bracket for the 12V 9ah battery and it's portable!

First QSO last night over a short range of 300km with an S9+20dB signal! The QSO lasted nearly 2 hours before I went to bed. Lots of fun ;-)

Looking forward to many enjoyable evenings through (our) summer.

Best wishes and 73s to Val and yourself,

Jon Point
VK2JDP

1318. Re: MKARS40 !

Yahoo group: mkars80
Date: 2009-11-15 14:19:28 UTC
From: Sigurd
Topic: 726 Message: 1318

--- In mkars80@..., "Ron" <pa0rcl@...> wrote:
>
> Hello all,
>
> For those interested I can report here that I have successfully modified the MKARS80 into an MKARS40. It is a matter of changeing a few coils and capacitors. I sacrificed one of my three varactor tuned MKARS80s to undergo the transformation. It was an evening's job and not difficult to do.
> If there is any interest I can describe how I did it and post it in the files section as a PDF, Steve permitting of course.
>
> 73 Ron de pa0rcl
>
As I have built two MKARS80 already, I am thinking about modyfy one of them to 40 -or even better 60m .The Norwegian tele administration have given us the posibility to use 60m as a normal secondary status band.
So please send me a few word and perhaps a scematic of what was needed for 40m modification.
73, de LB5MA Sigurd e-mail: siveland@... or here.

1319. This monings sked

Yahoo group: mkars80
Date: 2009-11-15 15:23:43 UTC
From: Steve Drury
Topic: 1319 Message: 1319

A relatively quite band allowed us to have a very successful sched this morning, there were a total of 14 MKARS80s, all but one were QRP. Thanks should go to ON65L for vacating the frequency when I asked him to! Towards the end band conditions improved and all stations were heard Q5.

Stations worked:

G3ZSV - Glyn, Plymouth
G4MDR - Alan, Newport Pagnell
M1EEL - Mick, Erith
G3GJA - Clive, Hull
G4PQP - Phil, Cromer
M0JVW - John, Between Liverpool and Manchester
G4OZG - Ted, Kings Lynn
G3UD - Graham, Stoke on Trent
G4DSV - Duncan, Mansfield
G4NJJ - Peter, Kings Lynn
M1CXK - Alan, Dartford
G0IJU - Peter, Kings Lynn
G4VLL - Chris, Marlow
G6ALU - Steve, Milton Keynes

Its not often you hear 14 transceivers all of the same design on a net, least of all when they have been home built.

The net lasted over an hour!

Steve G6ALU

[Non-text portions of this message have been removed]

1320. Re: This monings sked

Yahoo group: mkars80
Date: 2009-11-15 16:14:39 UTC
From: g4pqp
Topic: 1319 Message: 1320

Yes , very successful net Steve . As you pointed out, not often you hear 14 transceiver all of the same design and home built on the same frequency. They all sounded very good and most were Q5 for much of the time here with me near Cromer . Some QRM and QSB from time to time . Thank you for running the net . It was nice to get reports from around the country and make some new acquaintances . I was called by Allan, M1CXK in Dartford after the net . It was nice to compare notes . I await his e-mail to arrange further contacts in the near future . Thank you all for taking part , it was a pleasure talking to you . 73`s de Phil G4PQP/ G8NXI .

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> A relatively quite band allowed us to have a very successful sched this morning, there were a total of 14 MKARS80s, all but one were QRP. Thanks should go to ON65L for vacating the frequency when I asked him to! Towards the end band conditions improved and all stations were heard Q5.
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> Stations worked:
>
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> G4OZG - Ted, Kings Lynn
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> G4DSV - Duncan, Mansfield
> G4NJJ - Peter, Kings Lynn
> M1CXK - Alan, Dartford
> G0IJU - Peter, Kings Lynn
> G4VLL - Chris, Marlow
> G6ALU - Steve, Milton Keynes
>
> Its not often you hear 14 transceivers all of the same design on a net, least of all when they have been home built.
>
> The net lasted over an hour!
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>

1321. Re: This monings sked

Yahoo group: mkars80
Date: 2009-11-15 21:54:38 UTC
From: PAUL
Topic: 1319 Message: 1321

I don't know how but I missed it this morning. What time and frequency were you all on? Hopefully make it next week.
Nice to see a few familar calls from my old home town kings Lynn.
Cheers
Paul G1FJH. Market Harborough

--- In mkars80@..., "g4pqp" <g4pqp@...> wrote:
>
> Yes , very successful net Steve . As you pointed out, not often you hear 14 transceiver all of the same design and home built on the same frequency. They all sounded very good and most were Q5 for much of the time here with me near Cromer . Some QRM and QSB from time to time . Thank you for running the net . It was nice to get reports from around the country and make some new acquaintances . I was called by Allan, M1CXK in Dartford after the net . It was nice to compare notes . I await his e-mail to arrange further contacts in the near future . Thank you all for taking part , it was a pleasure talking to you . 73`s de Phil G4PQP/ G8NXI .
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > A relatively quite band allowed us to have a very successful sched this morning, there were a total of 14 MKARS80s, all but one were QRP. Thanks should go to ON65L for vacating the frequency when I asked him to! Towards the end band conditions improved and all stations were heard Q5.
> >
> > Stations worked:
> >
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> > G4MDR - Alan, Newport Pagnell
> > M1EEL - Mick, Erith
> > G3GJA - Clive, Hull
> > G4PQP - Phil, Cromer
> > M0JVW - John, Between Liverpool and Manchester
> > G4OZG - Ted, Kings Lynn
> > G3UD - Graham, Stoke on Trent
> > G4DSV - Duncan, Mansfield
> > G4NJJ - Peter, Kings Lynn
> > M1CXK - Alan, Dartford
> > G0IJU - Peter, Kings Lynn
> > G4VLL - Chris, Marlow
> > G6ALU - Steve, Milton Keynes
> >
> > Its not often you hear 14 transceivers all of the same design on a net, least of all when they have been home built.
> >
> > The net lasted over an hour!

> >
> > Steve G6ALU
> >
> > [Non-text portions of this message have been removed]
> >
>

1322. Re: [mkars80] Re: This monings sked

Yahoo group: mkars80
Date: 2009-11-15 21:57:49 UTC
From: Steve Drury
Topic: 1319 Message: 1322

Paul,

09:30 UTC on 3.690MHz.

Steve G6ALU

----- Original Message -----
From: "PAUL" <g1fjh@...>
To: <mkars80@...>
Sent: Sunday, November 15, 2009 9:54 PM
Subject: [mkars80] Re: This monings sked

>
> I don't know how but I missed it this morning. What time and frequency
> were you all on? Hopefully make it next week.
> Nice to see a few familar calls from my old home town kings Lynn.
> Cheers
> Paul G1FJH. Market Harborough
>
> --- In mkars80@..., "g4pqp" <g4pqp@...> wrote:
>>
>> Yes , very successful net Steve . As you pointed out, not often you hear
>> 14 transceiver all of the same design and home built on the same
>> frequency. They all sounded very good and most were Q5 for much of the
>> time here with me near Cromer . Some QRM and QSB from time to time .
>> Thank you for running the net . It was nice to get reports from around
>> the country and make some new acquaintances . I was called by Allan,
>> M1CXK in Dartford after the net . It was nice to compare notes . I await
>> his e-mail to arrange further contacts in the near future . Thank you all
>> for taking part , it was a pleasure talking to you . 73`s de Phil G4PQP/
>> G8NXI .
>>
>> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
>> >
>> > A relatively quite band allowed us to have a very successful sched this
>> > morning, there were a total of 14 MKARS80s, all but one were QRP.
>> > Thanks should go to ON65L for vacating the frequency when I asked him
>> > to! Towards the end band conditions improved and all stations were
>> > heard Q5.
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>> >
>> > Its not often you hear 14 transceivers all of the same design on a net,
>> > least of all when they have been home built.
>> >
>> > The net lasted over an hour!
>> >
>> > Steve G6ALU
>> >
>> > [Non-text portions of this message have been removed]
>> >
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> Yahoo! Groups Links
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1323. Re: This monings sked

Yahoo group: mkars80
Date: 2009-11-15 22:06:35 UTC
From: PAUL
Topic: 1319 Message: 1323

Thanks Steve
see you then, lads football permitting!!
--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Paul,
>
> 09:30 UTC on 3.690MHz.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "PAUL" <g1fjh@...>
> To: <mkars80@...>
> Sent: Sunday, November 15, 2009 9:54 PM
> Subject: [mkars80] Re: This monings sked
>
>
> >
> > I don't know how but I missed it this morning. What time and frequency
> > were you all on? Hopefully make it next week.
> > Nice to see a few familar calls from my old home town kings Lynn.
> > Cheers
> > Paul G1FJH. Market Harborough
> >
> > --- In mkars80@..., "g4pqp" <g4pqp@> wrote:
> >>
> >> Yes , very successful net Steve . As you pointed out, not often you hear
> >> 14 transceiver all of the same design and home built on the same
> >> frequency. They all sounded very good and most were Q5 for much of the
> >> time here with me near Cromer . Some QRM and QSB from time to time .
> >> Thank you for running the net . It was nice to get reports from around
> >> the country and make some new acquaintances . I was called by Allan,
> >> M1CXK in Dartford after the net . It was nice to compare notes . I await
> >> his e-mail to arrange further contacts in the near future . Thank you all
> >> for taking part , it was a pleasure talking to you . 73`s de Phil G4PQP/
> >> G8NXI .
> >>
> >> --- In mkars80@....uk, "Steve Drury" <g6alu@> wrote:
> >> >
> >> > A relatively quite band allowed us to have a very successful sched this
> >> > morning, there were a total of 14 MKARS80s, all but one were QRP.
> >> > Thanks should go to ON65L for vacating the frequency when I asked him
> >> > to! Towards the end band conditions improved and all stations were
> >> > heard Q5.
> >> >

> >> > Stations worked:
> >> >
> >> > G3ZSV - Glyn, Plymouth
> >> > G4MDR - Alan, Newport Pagnell
> >> > M1EEL - Mick, Erith
> >> > G3GJA - Clive, Hull
> >> > G4PQP - Phil, Cromer
> >> > M0JVW - John, Between Liverpool and Manchester
> >> > G4OZG - Ted, Kings Lynn
> >> > G3UD - Graham, Stoke on Trent
> >> > G4DSV - Duncan, Mansfield
> >> > G4NJJ - Peter, Kings Lynn
> >> > M1CXK - Alan, Dartford
> >> > G0IJU - Peter, Kings Lynn
> >> > G4VLL - Chris, Marlow
> >> > G6ALU - Steve, Milton Keynes
> >> >
> >> > Its not often you hear 14 transceivers all of the same design on a net,
> >> > least of all when they have been home built.
> >> >
> >> > The net lasted over an hour!
> >> >
> >> > Steve G6ALU
> >> >
> >> > [Non-text portions of this message have been removed]
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> >
> > Yahoo! Groups Links
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> >

1324. MKARS80 on-air downunder - fine-tune knob position.

Yahoo group: mkars80
Date: 2009-11-16 01:10:38 UTC
From: vk2jdp
Topic: 1317 Message: 1324

Why did I move the fine-tune knob (someone asked...)?

Because it is close to the main tuning knob and I bumped it a few times in the original position (fumble fingers!). It attaches to the front panel and is wired to the PCB. Photos of the complete unit, in the case, will be posted once it it painted. Currently being zinc plated.

Regards,

Jon Point
VK2JDP

--- In mkars80@..., "vk2jdp" <jonpoint@...> wrote:
>
> Steve,
>
> Just a quick note to thank you for producing this wonderful radio. As you can see from the photos, I didn't end up using the supplied case, but built it into a self-contained portable unit, together with a tuneup oscillator, an antenna tuner and an LED SWR unit. Just have to make the battery bracket for the 12V 9ah battery and it's portable!
>
> First QSO last night over a short range of 300km with an S9+20dB signal! The QSO lasted nearly 2 hours before I went to bed. Lots of fun ;-)
>
> Looking forward to many enjoyable evenings through (our) summer.
>
> Best wishes and 73s to Val and yourself,
>
> Jon Point
> VK2JDP
>

1325. My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 02:43:23 UTC
From: g4pqp
Topic: 1325 Message: 1325

Hi all ,

I am very pleased to report that I had my first transatlantic QSO with my MKARS 80 tonight . It was with John , W2VP from New York . I was very impressed by the receiver performance in as much as it resolved the weaker signal in spite of very strong co channel interference from European stations.

73`s de Phil G4PQP . Cromer Norfolk

1326. Re: My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 02:56:01 UTC
From: vk2jdp
Topic: 1325 Message: 1326

Nice one, Phil!

I too have worked W2PV but it was on 40m with 100W. He packs a good signal. Good work ;-)

Jon Point VK2JDP

--- In mkars80@yahoogroups.co.uk, "g4pqp" <g4pqp@...> wrote:
>
> Hi all ,
>
> I am very pleased to report that I had my first transatlantic QSO with my MKARS 80 tonight . It was with John , W2VP from New York . I was very impressed by the receiver performance in as much as it resolved the weaker signal in spite of very strong co channel interference from European stations.
>
>
> 73`s de Phil G4PQP . Cromer Norfolk
>

1327. Re: [mkars80] My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 09:17:52 UTC
From: Ron Vingerling
Topic: 1325 Message: 1327

Congratulations Phil, very good work indeed. I know how you must feel since I, too, had my first transatlantic QSO recently from Europe.

73 and good DX!

Ron pa0rcl

From: g4pqp <g4pqp@...>
To: mkars80@...
Sent: Mon, 16 November, 2009 3:43:23
Subject: [mkars80] My first transatlantic QSO with MKARS 80 .

Hi all ,

I am very pleased to report that I had my first transatlantic QSO with my MKARS 80 tonight . It was with John , W2VP from New York . I was very impressed by the receiver performance in as much as it resolved the weaker signal in spite of very strong co channel interference from European stations.

73`s de Phil G4PQP . Cromer Norfolk

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1328. Re: [mkars80] My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 09:59:47 UTC
From: John Housego
Topic: 1325 Message: 1328

Nice one Phil, out of interest wonder what antenna you used?

John (M0TIF)

On Mon, 2009-11-16 at 02:43 +0000, g4pqp wrote:

>
>
> Hi all ,
>
> I am very pleased to report that I had my first transatlantic QSO with
> my MKARS 80 tonight . It was with John , W2VP from New York . I was
> very impressed by the receiver performance in as much as it resolved
> the weaker signal in spite of very strong co channel interference from
> European stations.
>
> 73`s de Phil G4PQP . Cromer Norfolk
>
>
>
>
>

[Non-text portions of this message have been removed]

1329. RE: [mkars80] My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 10:35:25 UTC
From: David White
Topic: 1325 Message: 1329

yes i would like to know what aerial also john, its hard enough work with a fixed 2 ele beam and 100 watts on 20 metres. de G3ZPA

NNNN

To: mkars80@...
From: John.Housego1@...
Date: Mon, 16 Nov 2009 09:59:47 +0000
Subject: Re: [mkars80] My first transatlantic QSO with MKARS 80 .

Nice one Phil, out of interest wonder what antenna you used?

John (M0TIF)

On Mon, 2009-11-16 at 02:43 +0000, g4pqp wrote:

>
>
> Hi all ,
>
> I am very pleased to report that I had my first transatlantic QSO with
> my MKARS 80 tonight . It was with John , W2VP from New York . I was
> very impressed by the receiver performance in as much as it resolved
> the weaker signal in spite of very strong co channel interference from
> European stations.
>
> 73`s de Phil G4PQP . Cromer Norfolk
>
>
>
>
>

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[Non-text portions of this message have been removed]

1330. RE: [mkars80] My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 12:45:48 UTC
From: philip malme
Topic: 1325 Message: 1330

Hi Guys , thank you for your interest and replies . I should of course have mentioned my antenna set-up. Well nothing special , a G5RV @ 70 feet . I am lucky enough to be in a rural location and get the antenna well in the clear . Also I am blessed with an electrically quite location . I was just lucky enough to be in the right place at the right time with perfect conditions to make the contact. Of course it was mainly down to John`s (W2VP) excellent station . Full size four square and 800 watts. Never the less I am very impressed with the MKARS 80 in as much as I was hearing other State side stations who were running 100 watts to a dipole .
73`s de Phil.

--- On Mon, 16/11/09, David White <davidwhite400@...> wrote:

From: David White <davidwhite400@...>
Subject: RE: [mkars80] My first transatlantic QSO with MKARS 80 .
To: mkars80@...
Date: Monday, 16 November, 2009, 10:35

yes i would like to know what aerial also john, its hard enough work with a fixed 2 ele beam and 100 watts on 20 metres.   de G3ZPA

NNNN

To: mkars80@...
From: John.Housego1@...
Date: Mon, 16 Nov 2009 09:59:47 +0000
Subject: Re: [mkars80] My first transatlantic QSO with MKARS 80 .

Nice one Phil, out of interest wonder what antenna you used?

John (M0TIF)

On Mon, 2009-11-16 at 02:43 +0000, g4pqp wrote:

>
>
> Hi all ,
>
> I am very pleased to report that I had my first transatlantic QSO with
> my MKARS 80 tonight . It was with John , W2VP from New York . I was
> very impressed by the receiver performance in as much as it resolved
> the weaker signal in spite of very strong co channel interference from
> European stations.
>
> 73`s de Phil G4PQP . Cromer Norfolk
>
>
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>

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

1331. RE: [mkars80] My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 13:52:32 UTC
From: John Housego
Topic: 1325 Message: 1331

Thanks Phill, well that's great, well done, I thought you would say you
were using an enormous beam so it gives hope for the likes of me making
similar MKARS80 DX contact one day!

73 de John M0TIF
http://m0tif.blogspot.com/

On Mon, 2009-11-16 at 12:45 +0000, philip malme wrote:

>
>
>
> Hi Guys , thank you for your interest and replies . I should of course
> have mentioned my antenna set-up. Well nothing special , a G5RV @ 70
> feet . I am lucky enough to be in a rural location and get the antenna
> well in the clear . Also I am blessed with an electrically quite
> location . I was just lucky enough to be in the right place at the
> right time with perfect conditions to make the contact. Of course it
> was mainly down to John`s (W2VP) excellent station . Full size four
> square and 800 watts. Never the less I am very impressed with the
> MKARS 80 in as much as I was hearing other State side stations who
> were running 100 watts to a dipole .
> 73`s de Phil.
>
> --- On Mon, 16/11/09, David White <davidwhite400@...> wrote:
>
> From: David White <davidwhite400@...>
> Subject: RE: [mkars80] My first transatlantic QSO with MKARS 80 .
> To: mkars80@yahoogroups.co.uk
> Date: Monday, 16 November, 2009, 10:35
>
> yes i would like to know what aerial also john, its hard enough work
> with a fixed 2 ele beam and 100 watts on 20 metres. de G3ZPA
>
> NNNN
>
> To: mkars80@yahoogroups.co.uk
> From: John.Housego1@...
> Date: Mon, 16 Nov 2009 09:59:47 +0000
> Subject: Re: [mkars80] My first transatlantic QSO with MKARS 80 .
>
>
>
> Nice one Phil, out of interest wonder what antenna you used?
>
> John (M0TIF)

>
> On Mon, 2009-11-16 at 02:43 +0000, g4pqp wrote:
>
> >
> >
> > Hi all ,
> >
> > I am very pleased to report that I had my first transatlantic QSO
> with
> > my MKARS 80 tonight . It was with John , W2VP from New York . I was
> > very impressed by the receiver performance in as much as it resolved
> > the weaker signal in spi73 de John M0TIF

http://m0tif.blogspot.com/

> te of very strong co channel interference from
> > European stations.
> >
> > 73`s de Phil G4PQP . Cromer Norfolk
> >
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> --
> Have more than one Hotmail account? Link them together to easily
> access both
> http://clk.atdmt.com/UKM/go/186394591/direct/01/
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1332. Re: My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 18:41:18 UTC
From: g4pqp
Topic: 1325 Message: 1332

Yes indeed John , just a modest antenna system here .As I said its more a case of good conditions and being in the right place at the right time . It took a little patience to make the brief contact , almost 2 hours but it was worth the wait . Report for me was 4 & 4. Not a rag chew QSO by any means but it was a good contact . At the end of the day I think Steve , G6ALU deserves the credit for sharing his experience and giving us all the opportunity to build and use this fantastic little transceiver .

73`s De Phil G4PQP .

--- In mkars80@..., John Housego <John.Housego1@...> wrote:
>
>
> Thanks Phill, well that's great, well done, I thought you would say you
> were using an enormous beam so it gives hope for the likes of me making
> similar MKARS80 DX contact one day!
>
> 73 de John M0TIF
> http://m0tif.blogspot.com/
>
>
> On Mon, 2009-11-16 at 12:45 +0000, philip malme wrote:
>
> > >
> > >
> > >
> > > Hi Guys , thank you for your interest and replies . I should of course
> > > have mentioned my antenna set-up. Well nothing special , a G5RV @ 70
> > > feet . I am lucky enough to be in a rural location and get the antenna
> > > well in the clear . Also I am blessed with an electrically quite
> > > location . I was just lucky enough to be in the right place at the
> > > right time with perfect conditions to make the contact. Of course it
> > > was mainly down to John`s (W2VP) excellent station . Full size four
> > > square and 800 watts. Never the less I am very impressed with the
> > > MKARS 80 in as much as I was hearing other State side stations who
> > > were running 100 watts to a dipole .
> > > 73`s de Phil.
> > >
> > > --- On Mon, 16/11/09, David White <davidwhite400@...> wrote:
> > >
> > > From: David White <davidwhite400@...>
> > > Subject: RE: [mkars80] My first transatlantic QSO with MKARS 80 .
> > > To: mkars80@yahoogroups.co.uk
> > > Date: Monday, 16 November, 2009, 10:35
> > >
> > > yes i would like to know what aerial also john, its hard enough work

> > with a fixed 2 ele beam and 100 watts on 20 metres. de G3ZPA
> >
> > NNNN
> >
> > To: mkars80@...
> > From: John.Housego1@...
> > Date: Mon, 16 Nov 2009 09:59:47 +0000
> > Subject: Re: [mkars80] My first transatlantic QSO with MKARS 80 .
> >
> >
> >
> > Nice one Phil, out of interest wonder what antenna you used?
> >
> > John (M0TIF)
> >
> > On Mon, 2009-11-16 at 02:43 +0000, g4pqp wrote:
> >
> > >
> > >
> > > Hi all ,
> > >
> > > I am very pleased to report that I had my first transatlantic QSO
> > with
> > > my MKARS 80 tonight . It was with John , W2VP from New York . I was
> > > very impressed by the receiver performance in as much as it resolved
> > > the weaker signal in spi73 de John M0TIF
>
> http://m0tif.blogspot.com/
>
> > te of very strong co channel interference from
> > > European stations.
> > >
> > > 73`s de Phil G4PQP . Cromer Norfolk
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> > Have more than one Hotmail account? Link them together to easily
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1333. Re: My first transatlantic QSO with MKARS 80 .

Yahoo group: mkars80
Date: 2009-11-16 21:06:20 UTC
From: g4mdr
Topic: 1325 Message: 1333

Well done Phil, working the states, I worked K1JJ a few weeks ago, great feeling. Using Dipole at 30ft.

--- In mkars80@..., philip malme <g4pqp@...> wrote:
>
>
> Hi Guys , thank you for your interest and replies . I should of course have mentioned my antenna set-up. Well nothing special , a G5RV @ 70 feet . I am lucky enough to be in a rural location and get the antenna well in the clear . Also I am blessed with an electrically quite location . I was just lucky enough to be in the right place at the right time with perfect conditions to make the contact. Of course it was mainly down to John`s (W2VP) excellent station . Full size four square and 800 watts. Never the less I am very impressed with the MKARS 80 in as much as I was hearing other State side stations who were running 100 watts to a dipole .
> 73`s de Phil.
>
> --- On Mon, 16/11/09, David White <davidwhite400@...> wrote:
>
>
> From: David White <davidwhite400@...>
> Subject: RE: [mkars80] My first transatlantic QSO with MKARS 80 .
> To: mkars80@yahoogroups.co.uk
> Date: Monday, 16 November, 2009, 10:35
>
>
>
> yes i would like to know what aerial also john, its hard enough work with a fixed 2 ele beam and 100 watts on 20 metres.   de G3ZPA
>
>
>
> NNNN
>
>
>
>
>
>
>
> To: mkars80@...
> From: John.Housego1@...
> Date: Mon, 16 Nov 2009 09:59:47 +0000
> Subject: Re: [mkars80] My first transatlantic QSO with MKARS 80 .
>
>

>
>
>
> Nice one Phil, out of interest wonder what antenna you used?
>
> John (M0TIF)
>
> On Mon, 2009-11-16 at 02:43 +0000, g4pqp wrote:
>
> >
> >
> > Hi all ,
> >
> > I am very pleased to report that I had my first transatlantic QSO with
> > my MKARS 80 tonight . It was with John , W2VP from New York . I was
> > very impressed by the receiver performance in as much as it resolved
> > the weaker signal in spite of very strong co channel interference from
> > European stations.
> >
> > 73`s de Phil G4PQP . Cromer Norfolk
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1334. Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-19 17:18:04 UTC
From: Adrian Rees (MW1LCR)
Topic: 1325 Message: 1334

Hello everyone,

I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if anyone wants a cat.

Also, Steve were did you get the knobs used in the kit ? I could do with another tuning knob sized one, for another project I am building. If you could ley me know that would be good.

Thanks

Adrian MW1LCR

1335. Re: [mkars80] Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-19 17:35:18 UTC
From: JEREMY CARVILL
Topic: 1325 Message: 1335

What time are you planning tonight for an hour on 3690 Adrian?

regards,
Jem
Worcester
2E0JEM

--- On Thu, 19/11/09, Adrian Rees (MW1LCR) <rees.a@...> wrote:

From: Adrian Rees (MW1LCR) <rees.a@...>
Subject: [mkars80] Hello all & knobs !
To: mkars80@...
Date: Thursday, 19 November, 2009, 17:18

Hello everyone,

I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if anyone wants a cat.

Also, Steve were did you get the knobs used in the kit ? I could do with another tuning knob sized one, for another project I am building. If you could ley me know that would be good.

Thanks

Adrian MW1LCR

[Non-text portions of this message have been removed]

1336. Re: Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-19 17:57:31 UTC
From: g3oth
Topic: 1325 Message: 1336

Adrian, I was not aware that Steve supplied knobs with the MKARS80 kit, although he does include some small ones with the CW adapter. Please go to the photo section of this group and look at some builds by members and choose a knob which you like and tell me whose album and jpg it is depicted in, and I should be able to identify the knob and a source for you. 73 de Charles G3OTH

--- In mkars80@..., "Adrian Rees \(MW1LCR\)" <rees.a@...> wrote:
>
> Hello everyone,
>
> I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if anyone
> wants a cat.
>
> Also, Steve were did you get the knobs used in the kit ? I could do with
> another tuning knob sized one, for another project I am building. If you
> could ley me know that would be good.
>
> Thanks
>
> Adrian MW1LCR
>

1337. Re: [mkars80] Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-19 21:32:12 UTC
From: John Housego
Topic: 1325 Message: 1337

Hello Alan,

Maplin do the range of knobs

Fluted range
Type K7A order nr YX01B
Type K7B order ny YX02C
Type K7C order nr YX03D

this link "should" take you to the Maplin page....

http://www.maplin.co.uk/Search.aspx?criteria=knobs&source=15

73 de John (M0TIF)

On Thu, 2009-11-19 at 17:18 +0000, Adrian Rees (MW1LCR) wrote:

>
>
> Hello everyone,
>
> I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if
> anyone
> wants a cat.
>
> Also, Steve were did you get the knobs used in the kit ? I could do
> with
> another tuning knob sized one, for another project I am building. If
> you
> could ley me know that would be good.
>
> Thanks
>
> Adrian MW1LCR
>
>
>
>
>

[Non-text portions of this message have been removed]

1338. Re: [mkars80] Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-19 21:34:06 UTC
From: John Housego
Topic: 1325 Message: 1338

Alan sorry they are on page 2 of the link I sent. John

On Thu, 2009-11-19 at 21:32 +0000, John Housego wrote:

>
>
> Hello Alan,
>
> Maplin do the range of knobs
>
> Fluted range
> Type K7A order nr YX01B
> Type K7B order ny YX02C
> Type K7C order nr YX03D
>
> this link "should" take you to the Maplin page....
>
> http://www.maplin.co.uk/Search.aspx?criteria=knobs&source=15
>
> 73 de John (M0TIF)
>
> On Thu, 2009-11-19 at 17:18 +0000, Adrian Rees (MW1LCR) wrote:
>
> >
> >
> > Hello everyone,
> >
> > I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if
> > anyone
> > wants a cat.
> >
> > Also, Steve were did you get the knobs used in the kit ? I could do
> > with
> > another tuning knob sized one, for another project I am building. If
> > you
> > could ley me know that would be good.
> >
> > Thanks
> >
> > Adrian MW1LCR
> >
> >
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> >

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1339. Re: [mkars80] Re: Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-19 21:55:01 UTC
From: Steve Drury
Topic: 1325 Message: 1339

I supply knobs as an optional extra, I didn't when I first sold the radio.
They are available from Rapid (www.rapidonline.co.uk) but be warned they
have a carriage charge on all orders below ?30.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Thursday, November 19, 2009 5:57 PM
Subject: [mkars80] Re: Hello all & knobs !

>
>
> Adrian, I was not aware that Steve supplied knobs with the MKARS80 kit,
> although he does include some small ones with the CW adapter. Please go to
> the photo section of this group and look at some builds by members and
> choose a knob which you like and tell me whose album and jpg it is
> depicted in, and I should be able to identify the knob and a source for
> you.
> 73 de Charles G3OTH
>
> --- In mkars80@..., "Adrian Rees \(MW1LCR\)" <rees.a@...>
> wrote:
>>
>> Hello everyone,
>>
>> I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if anyone
>> wants a cat.
>>
>> Also, Steve were did you get the knobs used in the kit ? I could do with
>> another tuning knob sized one, for another project I am building. If you
>> could ley me know that would be good.
>>
>> Thanks
>>
>> Adrian MW1LCR
>>
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> Yahoo! Groups Links
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1340. RE: [mkars80] Re: Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-19 22:14:45 UTC
From: Adrian Rees (MW1LCR)
Topic: 1325 Message: 1340

Hi Steve
Thanks for this.

I have a homebrew spectrum analyser adapter (like the the poor mans spectrum analyser from RadCom) and I have lost a knob from it. (I bought it at Elvaston Castle about 4 or 5 years ago). It just so happens to use the same knob set as the MKARS80. Hence the question.

Regards

Adrian

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 19 November 2009 21:55
To: mkars80@...
Subject: Re: [mkars80] Re: Hello all & knobs !

I supply knobs as an optional extra, I didn't when I first sold the radio. They are available from Rapid (www.rapidonline.co.uk) but be warned they have a carriage charge on all orders below £30.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Thursday, November 19, 2009 5:57 PM
Subject: [mkars80] Re: Hello all & knobs !

>
>
> Adrian, I was not aware that Steve supplied knobs with the MKARS80
> kit,
> although he does include some small ones with the CW adapter. Please go to

> the photo section of this group and look at some builds by members and
> choose a knob which you like and tell me whose album and jpg it is
> depicted in, and I should be able to identify the knob and a source for
> you.
> 73 de Charles G3OTH
>
> --- In mkars80@..., "Adrian Rees \(MW1LCR\)"
> <rees.a@...>
> wrote:
>>

>> Hello everyone,
>>
>> I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if
>> anyone wants a cat.
>>
>> Also, Steve were did you get the knobs used in the kit ? I could do
>> with another tuning knob sized one, for another project I am
>> building. If you could ley me know that would be good.
>>
>> Thanks
>>
>> Adrian MW1LCR
>>
>
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> Yahoo! Groups Links
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Yahoo! Groups Links

1341. Re: [mkars80] Re: Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-19 22:17:13 UTC
From: Steve Drury
Topic: 1325 Message: 1341

Adrian,

I can sell you one... problem is the postage will be greater than the value
of the knob!

Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Thursday, November 19, 2009 10:14 PM
Subject: RE: [mkars80] Re: Hello all & knobs !

Hi Steve
Thanks for this.

I have a homebrew spectrum analyser adapter (like the the poor mans spectrum
analyser from RadCom) and I have lost a knob from it. (I bought it at
Elvaston Castle about 4 or 5 years ago). It just so happens to use the same
knob set as the MKARS80. Hence the question.

Regards

Adrian

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 19 November 2009 21:55
To: mkars80@...
Subject: Re: [mkars80] Re: Hello all & knobs !

I supply knobs as an optional extra, I didn't when I first sold the radio.
They are available from Rapid (www.rapidonline.co.uk) but be warned they
have a carriage charge on all orders below ?30.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Thursday, November 19, 2009 5:57 PM
Subject: [mkars80] Re: Hello all & knobs !

>
>
> Adrian, I was not aware that Steve supplied knobs with the MKARS80
> kit,

> although he does include some small ones with the CW adapter. Please go to

> the photo section of this group and look at some builds by members and
> choose a knob which you like and tell me whose album and jpg it is
> depicted in, and I should be able to identify the knob and a source for
> you.
> 73 de Charles G3OTH
>
> --- In mkars80@..., "Adrian Rees \(MW1LCR\)"
> <rees.a@...>
> wrote:
>>
>> Hello everyone,
>>
>> I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if
>> anyone wants a cat.
>>
>> Also, Steve were did you get the knobs used in the kit ? I could do
>> with another tuning knob sized one, for another project I am
>> building. If you could ley me know that would be good.
>>
>> Thanks
>>
>> Adrian MW1LCR
>>
>
>
>
>
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>
> Yahoo! Groups Links
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>

Yahoo! Groups Links

Yahoo! Groups Links

1342. RE: [mkars80] Re: Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-20 07:41:07 UTC
From: Adrian Rees (MW1LCR)
Topic: 1325 Message: 1342

That□s OK

How much ? I'll paypal it !

Adrian

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 19 November 2009 22:17
To: mkars80@....uk
Subject: Re: [mkars80] Re: Hello all & knobs !

Adrian,

I can sell you one... problem is the postage will be greater than the value
of the knob!

Steve G6ALU

----- Original Message -----
From: "Adrian Rees (MW1LCR)" <rees.a@...>
To: <mkars80@...>
Sent: Thursday, November 19, 2009 10:14 PM
Subject: RE: [mkars80] Re: Hello all & knobs !

Hi Steve
Thanks for this.

I have a homebrew spectrum analyser adapter (like the the poor mans spectrum
analyser from RadCom) and I have lost a knob from it. (I bought it at
Elvaston Castle about 4 or 5 years ago). It just so happens to use the same
knob set as the MKARS80. Hence the question.

Regards

Adrian

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 19 November 2009 21:55
To: mkars80@...
Subject: Re: [mkars80] Re: Hello all & knobs !

I supply knobs as an optional extra, I didn't when I first sold the radio.
They are available from Rapid (www.rapidonline.co.uk) but be warned they
have a carriage charge on all orders below £30.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Thursday, November 19, 2009 5:57 PM
Subject: [mkars80] Re: Hello all & knobs !

>
>
> Adrian, I was not aware that Steve supplied knobs with the MKARS80
> kit, although he does include some small ones with the CW adapter.
> Please go to

> the photo section of this group and look at some builds by members and
> choose a knob which you like and tell me whose album and jpg it is
> depicted in, and I should be able to identify the knob and a source
> for you. 73 de Charles G3OTH
>
> --- In mkars80@..., "Adrian Rees \(MW1LCR\)"
> <rees.a@...>
> wrote:
>>
>> Hello everyone,
>>
>> I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if
>> anyone wants a cat.
>>
>> Also, Steve were did you get the knobs used in the kit ? I could do
>> with another tuning knob sized one, for another project I am
>> building. If you could ley me know that would be good.
>>
>> Thanks
>>
>> Adrian MW1LCR
>>
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> Yahoo! Groups Links
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Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

1343. Sunday's sched

Yahoo group: mkars80
Date: 2009-11-20 16:23:29 UTC
From: Steve Drury
Topic: 1343 Message: 1343

I won't be able to be "net controller" this Sunday as I'm being treated to a birthday breakfast, would some one else like to take over the hot seat for a week? Its a pity to let the net drop after last weeks success.

Steve G6ALU

[Non-text portions of this message have been removed]

1344. Re: [mkars80] Sunday's sched

Yahoo group: mkars80
Date: 2009-11-21 23:24:17 UTC
From: DAVID CLENCH
Topic: 1343 Message: 1344

Enjoy your birthday Steve

I hope to be on the net on Sunday but am not best placed to be net controller as I am on the south coast. I will be listening/calling from 09:30.

Dave G0BVV Bracklesham Bay, West Sussex.

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Friday, 20 November, 2009 16:23:29
Subject: [mkars80] Sunday's sched

I won't be able to be "net controller" this Sunday as I'm being treated to a birthday breakfast, would some one else like to take over the hot seat for a week? Its a pity to let the net drop after last weeks success.

Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1345. Re: [mkars80] Sunday's sched

Yahoo group: mkars80
Date: 2009-11-21 23:50:09 UTC
From: Steve Drury
Topic: 1343 Message: 1345

Thanks Dave I will!

I'm sure someone will pick up the strings.....

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Saturday, November 21, 2009 11:24 PM
Subject: Re: [mkars80] Sunday's sched

> Enjoy your birthday Steve
>
> I hope to be on the net on Sunday but am not best placed to be net
> controller as I am on the south coast. I will be listening/calling from
> 09:30.
>
> Dave G0BVV Bracklesham Bay, West Sussex.
>
>
>
>
> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Friday, 20 November, 2009 16:23:29
> Subject: [mkars80] Sunday's sched
>
>
> I won't be able to be "net controller" this Sunday as I'm being treated to
> a birthday breakfast, would some one else like to take over the hot seat
> for a week? Its a pity to let the net drop after last weeks success.
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>
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> [Non-text portions of this message have been removed]
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> ------------------------------------

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> Yahoo! Groups Links
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1346. Re: [mkars80] Sunday's sched

Yahoo group: mkars80
Date: 2009-11-22 00:27:59 UTC
From: Ron Vingerling
Topic: 1343 Message: 1346

Happy birthday, Steve!

Ron pa0rcl

Op 20 nov 2009 om 17:23 heeft "Steve Drury" <g6alu@...> het volgende geschreven:\

I won't be able to be "net controller" this Sunday as I'm being treated to a birthday breakfast, would some one else like to take over the hot seat for a week? Its a pity to let the net drop after last weeks success.

Steve G6ALU

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1347. Re: [mkars80] Sunday's sched

Yahoo group: mkars80
Date: 2009-11-22 09:49:38 UTC
From: DAVID CLENCH
Topic: 1343 Message: 1347

Hi all

Tried calling in to the net this morning but deep qsb a problem. Will try again next week. G4MDR was 59+ at times down here in Bracklesham Bay.

Will try again next Sunday

73 Dave G0BVV

From: DAVID CLENCH <david.clench@...>
To: mkars80@yahoogroups.co.uk
Sent: Saturday, 21 November, 2009 23:24:17
Subject: Re: [mkars80] Sunday's sched

Enjoy your birthday Steve

I hope to be on the net on Sunday but am not best placed to be net controller as I am on the south coast. I will be listening/calling from 09:30.

Dave G0BVV Bracklesham Bay, West Sussex.

From: Steve Drury <g6alu@tiscali. co.uk>
To: mkars80@yahoogroups .co.uk
Sent: Friday, 20 November, 2009 16:23:29
Subject: [mkars80] Sunday's sched

I won't be able to be "net controller" this Sunday as I'm being treated to a birthday breakfast, would some one else like to take over the hot seat for a week? Its a pity to let the net drop after last weeks success.

Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1348. RE: [mkars80] Sunday's sched

Yahoo group: mkars80
Date: 2009-11-22 10:47:53 UTC
From: David White
Topic: 1343 Message: 1348

i wonder if it was breakfast in bed steve ?

To: mkars80@yahoogroups.co.uk
From: g6alu@...
Date: Sat, 21 Nov 2009 23:50:09 +0000
Subject: Re: [mkars80] Sunday's sched

Thanks Dave I will!

I'm sure someone will pick up the strings.....

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Saturday, November 21, 2009 11:24 PM
Subject: Re: [mkars80] Sunday's sched

> Enjoy your birthday Steve
>
> I hope to be on the net on Sunday but am not best placed to be net
> controller as I am on the south coast. I will be listening/calling from
> 09:30.
>
> Dave G0BVV Bracklesham Bay, West Sussex.
>
>
>
>
> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Friday, 20 November, 2009 16:23:29
> Subject: [mkars80] Sunday's sched
>
>
> I won't be able to be "net controller" this Sunday as I'm being treated to
> a birthday breakfast, would some one else like to take over the hot seat
> for a week? Its a pity to let the net drop after last weeks success.
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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Add your Gmail and Yahoo! Mail email accounts into Hotmail - it's easy
http://clk.atdmt.com/UKM/go/186394592/direct/01/

[Non-text portions of this message have been removed]

1349. Re: [mkars80] Sunday's sched

Yahoo group: mkars80
Date: 2009-11-22 11:39:39 UTC
From: Steve Drury
Topic: 1343 Message: 1349

Breakfast at Dobbies.. nice anyway!

Listend on 3.690 just as we were leaving but could only hear QRO stations.

Steve G6ALU

----- Original Message -----
From: "David White" <davidwhite400@...>
To: <mkars80@...>
Sent: Sunday, November 22, 2009 10:47 AM
Subject: RE: [mkars80] Sunday's sched

>
> i wonder if it was breakfast in bed steve ?
>
>
>
>
>
> To: mkars80@...
> From: g6alu@...
> Date: Sat, 21 Nov 2009 23:50:09 +0000
> Subject: Re: [mkars80] Sunday's sched
>
>
>
>
>
> Thanks Dave I will!
>
> I'm sure someone will pick up the strings.....
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "DAVID CLENCH" <david.clench@...>
> To: <mkars80@...>
> Sent: Saturday, November 21, 2009 11:24 PM
> Subject: Re: [mkars80] Sunday's sched
>
>> Enjoy your birthday Steve
>>
>> I hope to be on the net on Sunday but am not best placed to be net
>> controller as I am on the south coast. I will be listening/calling from
>> 09:30.
>>

>> Dave G0BVV Bracklesham Bay, West Sussex.
>>
>>
>>
>>
>> _____
>> From: Steve Drury <g6alu@...>
>> To: mkars80@...
>> Sent: Friday, 20 November, 2009 16:23:29
>> Subject: [mkars80] Sunday's sched
>>
>>
>> I won't be able to be "net controller" this Sunday as I'm being treated
>> to
>> a birthday breakfast, would some one else like to take over the hot seat
>> for a week? Its a pity to let the net drop after last weeks success.
>>
>> Steve G6ALU
>>
>> [Non-text portions of this message have been removed]
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>> [Non-text portions of this message have been removed]
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>> ------------------------------------
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>> Yahoo! Groups Links
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> _____
> Add your Gmail and Yahoo! Mail email accounts into Hotmail - it's easy
> http://clk.atdmt.com/UKM/go/186394592/direct/01/
>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links

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>

1350. Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-22 15:55:21 UTC
From: tedg4ozg
Topic: 1343 Message: 1350

Happy Birthday Steve.

I listened on 3.690 from just before 9.30 and managed to work various MKARS80 users before 10.00 when I was called away.

G3WDL Stuart. nr Doncaster
G8JWT Roger. Newport Pagnal
G4MDR Alan. Also N P
G4NJJ Peter. Kings Lynn
G0WKN Ken. Long Sutton, Lincs
G3GJA Clive. Hull
G3UD Graham. Stoke
G7HSA Adrian. Ludlow

I also heard G0BVV and some other stations very much in the QRM and noise but unable to work them, QSB was also a problem as are my cloth ears! Many thanks to all for being on, perhaps better conditions next week.

Ted G4OZG Kings Lynn, with quite low 80/40 trap dipole.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Breakfast at Dobbies.. nice anyway!
>
> Listend on 3.690 just as we were leaving but could only hear QRO stations.
>
> Steve G6ALU
>
>

1351. Re: [mkars80] Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-22 15:59:26 UTC
From: Steve Drury
Topic: 1343 Message: 1351

Thanks Ted, that looks quite successful despite the QSB.

Steve G6ALU

----- Original Message -----
From: "tedg4ozg" <ted.haskett@...>
To: <mkars80@...>
Sent: Sunday, November 22, 2009 3:55 PM
Subject: [mkars80] Re: Sunday's sched

>
> Happy Birthday Steve.
>
> I listened on 3.690 from just before 9.30 and managed to work various
> MKARS80 users before 10.00 when I was called away.
>
> G3WDL Stuart. nr Doncaster
> G8JWT Roger. Newport Pagnal
> G4MDR Alan. Also N P
> G4NJJ Peter. Kings Lynn
> G0WKN Ken. Long Sutton, Lincs
> G3GJA Clive. Hull
> G3UD Graham. Stoke
> G7HSA Adrian. Ludlow
>
> I also heard G0BVV and some other stations very much in the QRM and noise
> but unable to work them, QSB was also a problem as are my cloth ears!
> Many thanks to all for being on, perhaps better conditions next week.
>
> Ted G4OZG Kings Lynn, with quite low 80/40 trap dipole.
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Breakfast at Dobbies.. nice anyway!
>>
>> Listend on 3.690 just as we were leaving but could only hear QRO
>> stations.
>>
>> Steve G6ALU
>>
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> Yahoo! Groups Links
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1352. Re: [mkars80] Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-22 16:17:32 UTC
From: philip malme
Topic: 1343 Message: 1352

I wasn’t able to get on air this morning due to prior commitments. I have been having lots of fun and have managed to work some DX over the past week. Really pleased with my MKARS 80 . HOPE YOU HAD A GREAT BIRTHDAY STEVE.

[Non-text portions of this message have been removed]

1353. Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-22 16:25:46 UTC
From: g4pqp
Topic: 1343 Message: 1353

Not sure why the hieroglyphics on my reply . My spelling is not good but surely not that bad !!! HI .

--- In mkars80@..., philip malme <g4pqp@...> wrote:
>
>
> I wasnâ□□t able to get on air this morning due to prior commitments. I have been having lots of fun and have managed to work some DX over the past week. Really pleased with my MKARS 80 . HOPE YOU HAD A GREAT BIRTHDAY STEVE.
>
>
> Â
>
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>
>
> [Non-text portions of this message have been removed]
>

1354. Review on eHAM

Yahoo group: mkars80
Date: 2009-11-24 07:00:07 UTC
From: Steve Drury
Topic: 1354 Message: 1354

Thanks to M1LCR for putting a review on EHAM - see http://www.eham.net/reviews/detail/8635
.

Steve G6ALU

[Non-text portions of this message have been removed]

1355. Re: Hello all & knobs !

Yahoo group: mkars80
Date: 2009-11-24 13:24:04 UTC
From: hamlab3
Topic: 1325 Message: 1355

Adrian,

The knobs we now supply are all black and don't have an aluminium insert - if this sounds like the one you need please email me with its diameter and your address off list please.

Steve G6ALU
steve@...

--- In mkars80@..., "Adrian Rees \(MW1LCR\)" <rees.a@...> wrote:
>
> That's OK
>
> How much ? I'll paypal it !
>
> Adrian
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf
> Of Steve Drury
> Sent: 19 November 2009 22:17
> To: mkars80@...
> Subject: Re: [mkars80] Re: Hello all & knobs !
>
>
> Adrian,
>
> I can sell you one... problem is the postage will be greater than the value
> of the knob!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Adrian Rees (MW1LCR)" <rees.a@...>
> To: <mkars80@...>
> Sent: Thursday, November 19, 2009 10:14 PM
> Subject: RE: [mkars80] Re: Hello all & knobs !
>
>
>
> Hi Steve
> Thanks for this.
>
> I have a homebrew spectrum analyser adapter (like the the poor mans spectrum
> analyser from RadCom) and I have lost a knob from it. (I bought it at
> Elvaston Castle about 4 or 5 years ago). It just so happens to use the same
> knob set as the MKARS80. Hence the question.
>

> Regards
>
> Adrian
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Steve Drury
> Sent: 19 November 2009 21:55
> To: mkars80@...
> Subject: Re: [mkars80] Re: Hello all & knobs !
>
>
> I supply knobs as an optional extra, I didn't when I first sold the radio.
> They are available from Rapid (www.rapidonline.co.uk) but be warned they
> have a carriage charge on all orders below £30.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g3oth" <g3oth@...>
> To: <mkars80@...>
> Sent: Thursday, November 19, 2009 5:57 PM
> Subject: [mkars80] Re: Hello all & knobs !
>
>
> >
> >
> > Adrian, I was not aware that Steve supplied knobs with the MKARS80
> > kit, although he does include some small ones with the CW adapter.
> > Please go to
>
> > the photo section of this group and look at some builds by members and
> > choose a knob which you like and tell me whose album and jpg it is
> > depicted in, and I should be able to identify the knob and a source
> > for you. 73 de Charles G3OTH
> >
> > --- In mkars80@yahoogroups.co.uk, "Adrian Rees \(MW1LCR\)"
> > <rees.a@>
> > wrote:
> >>
> >> Hello everyone,
> >>
> >> I'll be on 3690KHz tonight for an hour or so, with my MKARS80 if
> >> anyone wants a cat.
> >>
> >> Also, Steve were did you get the knobs used in the kit ? I could do
> >> with another tuning knob sized one, for another project I am
> >> building. If you could ley me know that would be good.
> >>
> >> Thanks

> >>
> >> Adrian MW1LCR
> >>
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> Yahoo! Groups Links
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1356. Test only

Yahoo group: mkars80
Date: 2009-11-29 11:38:49 UTC
From: Allen
Topic: 1356 Message: 1356

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Test only
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1357. Re: [mkars80] Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-29 19:37:24 UTC
From: Steve Drury
Topic: 1343 Message: 1357

I was late on the radio this morning (making a Christmas cake),
unfortunately there was a QRO net just 1kHz high so I didn't here
anything... try again another week!

If you speak Russian you may like to translate this U-tube video for me!

http://www.youtube.com/watch?v=n6X-jEZkSq4

Steve G6ALU

----- Original Message -----
From: "g4pqp" <g4pqp@...>
To: <mkars80@...>
Sent: Sunday, November 22, 2009 4:25 PM
Subject: [mkars80] Re: Sunday's sched

Not sure why the hieroglyphics on my reply . My spelling is not good but
surely not that bad !!! HI .

--- In mkars80@..., philip malme <g4pqp@...> wrote:
>
>
> I wasn??Tt able to get on air this morning due to prior commitments. I
> have been having lots of fun and have managed to work some DX over the
> past week. Really pleased with my MKARS 80 . HOPE YOU HAD A GREAT BIRTHDAY
> STEVE.

1358. Re: [mkars80] Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-29 19:44:48 UTC
From: DAVID CLENCH
Topic: 1343 Message: 1358

Hi Steve

I was late on air too but because I overslept!

I heard the other net too but no Mkars80 folk.

Oh well next week hopefully.

73 Dave G0BVV

From: Steve Drury <g6alu@....uk>
To: mkars80@...
Sent: Sunday, 29 November, 2009 19:37:24
Subject: Re: [mkars80] Re: Sunday's sched

I was late on the radio this morning (making a Christmas cake),
unfortunately there was a QRO net just 1kHz high so I didn't here
anything... try again another week!

If you speak Russian you may like to translate this U-tube video for me!

http://www.youtube. com/watch? v=n6X-jEZkSq4

Steve G6ALU

----- Original Message -----
From: "g4pqp" <g4pqp@yahoo. com>
To: <mkars80@yahoogroups .co.uk>
Sent: Sunday, November 22, 2009 4:25 PM
Subject: [mkars80] Re: Sunday's sched

Not sure why the hieroglyphics on my reply . My spelling is not good but
surely not that bad !!! HI .

--- In mkars80@yahoogroups .co.uk, philip malme <g4pqp@...> wrote:
>
>
> I wasnâ?Tt able to get on air this morning due to prior commitments. I
> have been having lots of fun and have managed to work some DX over the
> past week. Really pleased with my MKARS 80 . HOPE YOU HAD A GREAT BIRTHDAY
> STEVE.

[Non-text portions of this message have been removed]

1359. Re: [mkars80] Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-29 20:19:28 UTC
From: G4DFV
Topic: 1343 Message: 1359

Hi Steve,

On a number of MKARS80 Sunday nets there is generally some QRO QSO's within a few KHz of 3.690 that have caused problems at my end when attempting to resolve the weaker signals of other net members.

This I attribute to the likely desensitising of the front end of my transceiver. Frequencies around 3.690 seem popular for other Sunday morning nets, so perhaps ours isn't such a good choice of frequency for QRP after all.

Maybe our members could listen around 80m at roughly the same time (9.30-10.00) each day and noting which frequencies are generally clear, and draw up a list of favourable ones, and have a vote to see which one suits the majority?

Duncan G4DFV

[Non-text portions of this message have been removed]

1360. RE: [mkars80] Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-29 21:05:11 UTC
From: David White
Topic: 1343 Message: 1360

hello steve, i watched the video with my daughter in law and she translated it perfectly as she is russian. all he was saying was that he had only just assembled it and this was his first contact on the air with a home built low power transceiver. the other station said he was receiving him perfectly and congratulated hom on a good sounding transceiver, he then thanked him and signed off. that was all that was said steve. my daughter in law is handy at times as she speaks 5 different languages. de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Sun, 29 Nov 2009 19:37:24 +0000
Subject: Re: [mkars80] Re: Sunday's sched

I was late on the radio this morning (making a Christmas cake),
unfortunately there was a QRO net just 1kHz high so I didn't here
anything... try again another week!

If you speak Russian you may like to translate this U-tube video for me!

http://www.youtube.com/watch?v=n6X-jEZkSq4

Steve G6ALU

----- Original Message -----
From: "g4pqp" <g4pqp@...>
To: <mkars80@...>
Sent: Sunday, November 22, 2009 4:25 PM
Subject: [mkars80] Re: Sunday's sched

Not sure why the hieroglyphics on my reply . My spelling is not good but
surely not that bad !!! HI .

--- In mkars80@..., philip malme <g4pqp@...> wrote:
>
>
> I wasn??Tt able to get on air this morning due to prior commitments. I
> have been having lots of fun and have managed to work some DX over the
> past week. Really pleased with my MKARS 80 . HOPE YOU HAD A GREAT BIRTHDAY
> STEVE.

_____
Have more than one Hotmail account? Link them together to easily access both
http://clk.atdmt.com/UKM/go/186394591/direct/01/

[Non-text portions of this message have been removed]

1361. Re: [mkars80] Re: Sunday's sched

Yahoo group: mkars80
Date: 2009-11-29 21:29:34 UTC
From: Steve Drury
Topic: 1343 Message: 1361

Thanks for that info David - Konstantin RN3ZF is now a member of this group.

I only speak one language (badly).

Regards,
Steve G6ALU

----- Original Message -----
From: "David White" <davidwhite400@...>
To: <mkars80@...>
Sent: Sunday, November 29, 2009 9:05 PM
Subject: RE: [mkars80] Re: Sunday's sched

hello steve, i watched the video with my daughter in law and she translated
it perfectly as she is russian. all he was saying was that he had only
just assembled it and this was his first contact on the air with a home
built low power transceiver. the other station said he was receiving him
perfectly and congratulated hom on a good sounding transceiver, he then
thanked him and signed off. that was all that was said steve. my
daughter in law is handy at times as she speaks 5 different languages. de
G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Sun, 29 Nov 2009 19:37:24 +0000
Subject: Re: [mkars80] Re: Sunday's sched

I was late on the radio this morning (making a Christmas cake),
unfortunately there was a QRO net just 1kHz high so I didn't here
anything... try again another week!

If you speak Russian you may like to translate this U-tube video for me!

http://www.youtube.com/watch?v=n6X-jEZkSq4

Steve G6ALU

----- Original Message -----
From: "g4pqp" <g4pqp@...>
To: <mkars80@...>
Sent: Sunday, November 22, 2009 4:25 PM
Subject: [mkars80] Re: Sunday's sched

Not sure why the hieroglyphics on my reply . My spelling is not good but
surely not that bad !!! HI .

--- In mkars80@..., philip malme <g4pqp@...> wrote:
>
>
> I wasn??Tt able to get on air this morning due to prior commitments. I
> have been having lots of fun and have managed to work some DX over the
> past week. Really pleased with my MKARS 80 . HOPE YOU HAD A GREAT BIRTHDAY
> STEVE.

_____
Have more than one Hotmail account? Link them together to easily access both
http://clk.atdmt.com/UKM/go/186394591/direct/01/

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1362. Some new videos from Len

Yahoo group: mkars80
Date: 2009-11-30 19:15:29 UTC
From: g3oth
Topic: 1362 Message: 1362

Hi,

Len KC0WOX has just posted some details of some new videos he has made for the BITX20 group which I thought would be of interest to MKARS80 members, particularly the part regarding shape of the BITX20 ver.3, 10MHz Xtal Filter which is similar in design to Steves.

The first one,
http://golddredgervideo.com/kc0wox/networkanalyzer/networkanalyzersbasicspart1.w\
mv

goes through a few basics on a network analyzer and then runs some test measurements on a WA2EBY amplifier lowpass filter board.

It is 166 meg in size and 16 minutes long.

The second one

http://golddredgervideo.com/kc0wox/networkanalyzer/bitx20akitfilters.wmv

runs tests on the lowpass filter, bandpass filter, and crystal filter on a bitx20a kit. It is 89 meg in size and about 8 minutes long.

He will add some more video on the crystal filters later as he is just learning how to get the best test results.

There will be a 3rd video in the series as soon as he gets it edited on the same filters in a bitx version 3 board.

I would recommend watching the first one first as it explains the basic setup and how the measurements are made.

73 de Charles G3OTH

1363. Illumination of a digital scale. How to include?

Yahoo group: mkars80
Date: 2009-12-01 20:19:04 UTC
From: Konstantin
Topic: 1363 Message: 1363

Hi Steve, hi all.
I am very glad, that you have accepted me in group!
Very much I wish to make illumination of a digital scale. Show please where the manual for a digital scale lays? I still can involve what latent functions?
Thanks!

Best regards,
Konstantin V. Enin (RN3ZF)

1364. Effect of B.F.O. on filter freq ??.

Yahoo group: mkars80
Date: 2009-12-04 13:10:01 UTC
From: g4pqp
Topic: 1364 Message: 1364

I noticed a post some time ago in reply to a station having TX problems (buzzing on TX) . Steve suggested that the problem could be due to the B.F.O. sitting exactly on the filter frequency .

I had a similar problem some time ago . Symptoms were that the receiver went very quiet and there was about 3 watts showing on T.X without any mod, mod led was not illuminated. When I monitored the T.X. frequency on my ICOM746 there was no carrier of funny noises , just an extremely weak signal when I whistled into the mic . After some while the fault disappeared of its own accord . I didn't even remove the case .

The kit had been working for some time without a hitch . The weather had been extremely mild then suddenly turned very cold . I have an outside shack . My theory is that perhaps due to the low temperature the B.F.O. was siting on the filter frequency and gradually drifted H.F. when the crystal / associated components reached temperature . As is my normal practice In the winter months I have switched on the 1.8Kw night-storage heater which is set to minimum and runs for 4 over night on off peak rate just to take the chill of.

Just wondering if anyone else has had a similar experience ?. If the fault occurs again I will monitor the B.F.O. frequency with my frequency counter from switch on and watch it as the set comes up to temperature.

Thank you for your interest , 73`s de Phil .

1365. MKARS80->MKARS160

Yahoo group: mkars80
Date: 2009-12-05 07:57:42 UTC
From: Konstantin
Topic: 1365 Message: 1365

I investigate a variant of updating of the transceiver on a range of 160 metres. Whether it is possible to add in the scheme a range of 160 metres not changing a microcontroller insertion?

Thanks!

1366. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2009-12-05 09:46:12 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 1366

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /mk_ol1a.pdf
Uploaded by : vk2jdp <jonpoint@...>
Description : PCB overlay with see-through tracks to help with circuit tracing.

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/mk_ol1a.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

vk2jdp <jonpoint@...>

1367. Re: [mkars80] MKARS80->MKARS160

Yahoo group: mkars80
Date: 2009-12-05 10:14:16 UTC
From: Steve Drury
Topic: 1365 Message: 1367

Hi Konstantin,

The micro program should be OK although I have not tested it on 160M, the bigesr problem will be the VFO frequency; to tune 18.-2.0MHz the VFO will have to tune 8.8-8MHz which may be too high to have good stability.

Regards,
Steve G6ALU

----- Original Message -----
From: "Konstantin" <rn3zf@...>
To: <mkars80@...>
Sent: Saturday, December 05, 2009 7:57 AM
Subject: [mkars80] MKARS80->MKARS160

>I investigate a variant of updating of the transceiver on a range of 160
>metres. Whether it is possible to add in the scheme a range of 160 metres
>not changing a microcontroller insertion?
>
> Thanks!
>
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> Yahoo! Groups Links
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1368. Re: MKARS80->MKARS160

Yahoo group: mkars80
Date: 2009-12-06 11:26:43 UTC
From: Konstantin
Topic: 1365 Message: 1368

Hello Steve.
Thanks for the answer.
I will experiment. About result I will write later.

Best regards,
Konstantin V. Enin (RN3ZF)

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Konstantin,
>
> The micro program should be OK although I have not tested it on 160M, the
> bigesr problem will be the VFO frequency; to tune 18.-2.0MHz the VFO will
> have to tune 8.8-8MHz which may be too high to have good stability.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Konstantin" <rn3zf@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Saturday, December 05, 2009 7:57 AM
> Subject: [mkars80] MKARS80->MKARS160
>
>
> >I investigate a variant of updating of the transceiver on a range of 160
> >metres. Whether it is possible to add in the scheme a range of 160 metres
> >not changing a microcontroller insertion?
> >
> > Thanks!
> >
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> > Yahoo! Groups Links
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1369. Interest from G QRP club.

Yahoo group: mkars80
Date: 2009-12-06 12:49:23 UTC
From: g4pqp
Topic: 1369 Message: 1369

Hi Steve ,
I was looking at the G QRP CLUB website recently and thought that the MKARS 80 kit would be of interest to its members. I sent a quick e-mail to George Dobbs G3RJV who has been running the club for many years .His reply below ..

73`s de Phil .

Hello Philip
Good to hear from you.
I had heard of the MKARS-80
but not looked at the webpage.
A very useful kit.
I will contact them about a mention in SPRAT
and perhaps my RadCom page.
Although the winter SPRAT is now with the printer.
Thanks
George
.

1370. sunday net

Yahoo group: mkars80
Date: 2009-12-06 16:00:02 UTC
From: m1evc
Topic: 1370 Message: 1370

Hi all, seemed like a good turn out for the mkars80 net this morning.some good strong signals reaching sunny Peacehaven on the south coast..I would have like to have joined in but the xyl has locked my kit away for me to build at xmas..so was listening on an SGC2020 and an ft1000 field..Its great to hear qso knowing that all the trans are homebuilt...(I spit on my japanese black box urgghh)

1371. Re: [mkars80] sunday net

Yahoo group: mkars80
Date: 2009-12-06 20:06:27 UTC
From: DAVID CLENCH
Topic: 1370 Message: 1371

Hi John

Conditions were noisy on the net this morning. There were stations above & below 3.690. I scribbled down G6ALU/G8DIU/G8JWT/G0WKN/G4MDR/M0TZ0 & DA6TEC on the net but could not make myself heard. Never mind there is always next week.

Someone did suggest trying an evening net. Is anyone up for it?

Regards to all

Dave G0BVV

From: m1evc <john.branch@...>
To: mkars80@...
Sent: Sunday, 6 December, 2009 16:00:02
Subject: [mkars80] sunday net

Hi all, seemed like a good turn out for the mkars80 net this morning.some good strong signals reaching sunny Peacehaven on the south coast..I would have like to have joined in but the xyl has locked my kit away for me to build at xmas..so was listening on an SGC2020 and an ft1000 field..Its great to hear qso knowing that all the trans are homebuilt... (I spit on my japanese black box urgghh)

[Non-text portions of this message have been removed]

1372. Re: [mkars80] sunday net

Yahoo group: mkars80
Date: 2009-12-06 20:48:28 UTC
From: Steve Drury
Topic: 1370 Message: 1372

Hello David,
You were heard as I have you in my log but I don't think you could hear us when we returned to you.

My list is as follows:

G8DIU - Brian, Esher
G8JWT - Roger, Stoke Goldington Bucks.
G0WKN - Ken, Long Sutton
G4MDR - Alan, Newport Pagnell
DA6TEC - Carl, Germany (sorry don't remember where abouts) Running a Ten-Tec on 5/20W
G0BVV - Dave, heard but not "worked"
G3GJA - Clive, Hull
G3UD - Graham, Soke on Trent
M0TZO/P - Paul, Banstead

G0AIJ was heard (this may have been M0AIJ) but not worked.

Lets hope the conditions are better next week.

Following the net I looked for a free frequency, there was one at 3.650MHz but I know this is a popular frequency in the morning so the chance of it being free next week is slight; if you don't hear us on 3.690MHz go and have a listen on 3.650MHz just in case we are there!

Steve G6ALU

----- Original Message -----
From: "DAVID CLENCH" <david.clench@...>
To: <mkars80@...>
Sent: Sunday, December 06, 2009 8:06 PM
Subject: Re: [mkars80] sunday net

> Hi John
>
> Conditions were noisy on the net this morning. There were stations above &
> below 3.690. I scribbled down G6ALU/G8DIU/G8JWT/G0WKN/G4MDR/M0TZ0 & DA6TEC
> on the net but could not make myself heard. Never mind there is always
> next week.
>
> Someone did suggest trying an evening net. Is anyone up for it?
>
> Regards to all
>
> Dave G0BVV
>

>
>
>
> _____
> From: m1evc <john.branch@...>
> To: mkars80@...
> Sent: Sunday, 6 December, 2009 16:00:02
> Subject: [mkars80] sunday net
>
>
> Hi all, seemed like a good turn out for the mkars80 net this morning.some
> good strong signals reaching sunny Peacehaven on the south coast..I would
> have like to have joined in but the xyl has locked my kit away for me to
> build at xmas..so was listening on an SGC2020 and an ft1000 field..Its
> great to hear qso knowing that all the trans are homebuilt... (I spit on
> my japanese black box urgghh)
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>
> [Non-text portions of this message have been removed]
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> ---
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> Yahoo! Groups Links
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1373. Re: [mkars80] Interest from G QRP club.

Yahoo group: mkars80
Date: 2009-12-07 19:29:31 UTC
From: Steve Drury
Topic: 1369 Message: 1373

Hi Phil,
I'm a member of the G-QRP club - others have suggested advertising it in Sprat or offering it as an article.

I haven't "pushed" the MKARS80 - earlier in the year RADCOM wanted to do an article, quite surprising really as the project is now over 2 years old!

The plan is to get a few diferent kits on the market before we become too "known".

Regards,
Steve G6ALU

----- Original Message -----
From: "g4pqp" <g4pqp@...>
To: <mkars80@...>
Sent: Sunday, December 06, 2009 12:49 PM
Subject: [mkars80] Interest from G QRP club.

Hi Steve ,
I was looking at the G QRP CLUB website recently and thought
that the MKARS 80 kit would be of interest to its members. I sent a quick
e-mail to George Dobbs G3RJV who has been running the club for many years
.......His reply below ....

73`s de Phil .

Hello Philip
Good to hear from you.
I had heard of the MKARS-80
but not looked at the webpage.
A very useful kit.
I will contact them about a mention in SPRAT
and perhaps my RadCom page.
Although the winter SPRAT is now with the printer.
Thanks
George
.

Yahoo! Groups Links

1374. Finally M0TZO's MKARS on the air

Yahoo group: mkars80
Date: 2009-12-08 01:11:43 UTC
From: m0tzo
Topic: 1374 Message: 1374

Hi,

Just posted a few minutes of Video I took on Sunday after the MKARS80 net whilst playing with new video camera. This was while RSGB 2m AFS contest was going on in main Scout Hall.

http://www.youtube.com/watch?v=e0p8oo1p0IU

http://www.youtube.com/watch?v=NbFzoyjxx1s

Now I have to get to pound shop for a mic and also finish the overlay.

73

Paul M0TZO

ps Also http://www.youtube.com/watch?v=1J2gre274AA is a friend on same day flying his Remote Controlled Helicopter, also distracting us from 2m contest.

1375. Re: Finally M0TZO's MKARS on the air

Yahoo group: mkars80
Date: 2009-12-08 03:16:44 UTC
From: vk2jdp
Topic: 1374 Message: 1375

Paul,

Congratulations Paul!

Just a note however, the rig seems to to be locking to frequency OK (as evidenced by you having to turn the fine-tune a long way before anything happens) but the lock indicator (+) doesn't seem to show on the display???

Am I missing something?

Regards,
Jon

--- In mkars80@..., "m0tzo" <gadget17+yahoogroups@...> wrote:
>
> Hi,
>
> Just posted a few minutes of Video I took on Sunday after the MKARS80 net whilst playing with new video camera. This was while RSGB 2m AFS contest was going on in main Scout Hall.
>
> http://www.youtube.com/watch?v=e0p8oo1p0IU
>
> http://www.youtube.com/watch?v=NbFzoyjxx1s
>
> Now I have to get to pound shop for a mic and also finish the overlay.
>
> 73
>
> Paul M0TZO
>
> ps Also http://www.youtube.com/watch?v=1J2gre274AA is a friend on same day flying his Remote Controlled Helicopter, also distracting us from 2m contest.
>

1376. Re: [mkars80] Re: Finally M0TZO's MKARS on the air

Yahoo group: mkars80
Date: 2009-12-08 07:06:46 UTC
From: Steve Drury
Topic: 1374 Message: 1376

I think its an old revision of the firmware; nice pictures, thanks for
putting them on U tube.

Steve G6ALU

----- Original Message -----
From: "vk2jdp" <jonpoint@...>
To: <mkars80@...>
Sent: Tuesday, December 08, 2009 3:16 AM
Subject: [mkars80] Re: Finally M0TZO's MKARS on the air

> Paul,
>
> Congratulations Paul!
>
> Just a note however, the rig seems to to be locking to frequency OK (as
> evidenced by you having to turn the fine-tune a long way before anything
> happens) but the lock indicator (+) doesn't seem to show on the display???
>
> Am I missing something?
>
> Regards,
> Jon
>
> --- In mkars80@..., "m0tzo" <gadget17+yahoogroups@...>
> wrote:
>>
>> Hi,
>>
>> Just posted a few minutes of Video I took on Sunday after the MKARS80 net
>> whilst playing with new video camera. This was while RSGB 2m AFS contest
>> was going on in main Scout Hall.
>>
>> http://www.youtube.com/watch?v=e0p8oo1p0IU
>>
>> http://www.youtube.com/watch?v=NbFzoyjxx1s
>>
>> Now I have to get to pound shop for a mic and also finish the overlay.
>>
>> 73
>>
>> Paul M0TZO
>>
>> ps Also http://www.youtube.com/watch?v=1J2gre274AA is a friend on same
>> day flying his Remote Controlled Helicopter, also distracting us from 2m
>> contest.

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> Yahoo! Groups Links
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1377. Measurments.....

Yahoo group: mkars80
Date: 2009-12-08 17:26:22 UTC
From: sm0yyq
Topic: 1377 Message: 1377

Hi All..

Im new to this kit, and i have plans to brought one...

I have a question about measurments on the kit and the using of an oscilloscope, is it a must to have one.?

I dont have one at home.. and will i spoil the build of the kit if i dont get any?

/M

1378. RE: [mkars80] Measurments.....

Yahoo group: mkars80
Date: 2009-12-08 17:46:30 UTC
From: Adrian Rees
Topic: 1377 Message: 1378

Hello

I built the kit with a multimeter and it works great. An oscilloscope would be useful, but not necessary.

73

Adrian MW1LCR

From: mkars80@... on behalf of sm0yyq
Sent: Tue 08/12/2009 17:26
To: mkars80@...
Subject: [mkars80] Measurments.....

Hi All..

Im new to this kit, and i have plans to brought one...

I have a question about measurments on the kit and the using of an oscilloscope, is it a must to have one.?

I dont have one at home.. and will i spoil the build of the kit if i dont get any?

/M

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1379. Re: Measurments.....

Yahoo group: mkars80
Date: 2009-12-08 17:50:24 UTC
From: g3oth
Topic: 1377 Message: 1379

Hi
You dont need an oscilloscope to build or commission this kit.
Although they are always a useful addition to the shack if you have one.
All you really need is a small 15 watt or thereabouts soldering iron and bit, a supply of small guage solder, a good pair of cutters (Swedish Steel...you know all about that I guess), preferably access to a cheap $10 multimeter and a nice magnifying glass or magnifier. The build instructions are very detailed and superb, just remember to read them as you work and take your time and check everything as you go.
Most people manage to get their kits to work first time if they have payed careful attention to their soldering and carefully inspected their joints for continuity and for any bridging or non wetting as they went along.
Its a great kit, treat yourself for Christmas, you will not regret it.
73 de Charles G3OTH.

--- In mkars80@....uk, "sm0yyq" <sm0yyq@...> wrote:
>
> Hi All..
>
> Im new to this kit, and i have plans to brought one...
>
> I have a question about measurments on the kit and the using of an oscilloscope, is it a must to have one.?
>
> I dont have one at home.. and will i spoil the build of the kit if i dont get any?
>
> /M
>

1380. Low Band Contest this weekend.

Yahoo group: mkars80
Date: 2009-12-08 17:49:55 UTC
From: Adrian Rees
Topic: 1380 Message: 1380

Off topic, and apologies....but.

This weekend is the UBA (Belgian) Low band contest (160-80-40m) on Saturday & Sunday. 3 hours each day. The Sunday morning slot is 0600 - 1000 so co-incides with the MKARS Sunday net. Might be an ideal time to get some nice contacts with the MKARS as this is a very relaxed contest. I guess Mr Low Band himself (ON4UN) will be on air too boot.

Info here: http://www.uba.be/sites/default/files/uploads/hf/other/uba_winter_en.pdf

Best wishes

Adrian MW1LCR

[Non-text portions of this message have been removed]

1381. Re: [mkars80] Re: Measurments.....

Yahoo group: mkars80
Date: 2009-12-08 21:54:26 UTC
From: Steve Drury
Topic: 1377 Message: 1381

I agree with Charles but if you have a HOT soldering iron it will help with tinning of the enameled wires.

Steve G6ALU

----- Original Message -----
From: "g3oth" <g3oth@...>
To: <mkars80@...>
Sent: Tuesday, December 08, 2009 5:50 PM
Subject: [mkars80] Re: Measurments.....

>
>
>
> Hi
> You dont need an oscilloscope to build or commission this kit.
> Although they are always a useful addition to the shack if you have one.
> All you really need is a small 15 watt or thereabouts soldering iron and
> bit, a supply of small guage solder, a good pair of cutters (Swedish
> Steel...you know all about that I guess), preferably access to a cheap $10
> multimeter and a nice magnifying glass or magnifier. The build
> instructions are very detailed and superb, just remember to read them as
> you work and take your time and check everything as you go.
> Most people manage to get their kits to work first time if they have payed
> careful attention to their soldering and carefully inspected their joints
> for continuity and for any bridging or non wetting as they went along.
> Its a great kit, treat yourself for Christmas, you will not regret it.
> 73 de Charles G3OTH.
>
> --- In mkars80@..., "sm0yyq" <sm0yyq@...> wrote:
>>
>> Hi All..
>>
>> Im new to this kit, and i have plans to brought one...
>>
>> I have a question about measurments on the kit and the using of an
>> oscilloscope, is it a must to have one.?
>>
>> I dont have one at home.. and will i spoil the build of the kit if i dont
>> get any?
>>
>> /M
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>
> Yahoo! Groups Links
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>
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1382. Re: Finally M0TZO's MKARS on the air

Yahoo group: mkars80
Date: 2009-12-08 22:38:25 UTC
From: m0tzo
Topic: 1374 Message: 1382

Hi Steve,

It says 1.1 when powers up. I brought the kit in July 2008 when Steve visited Sutton & Cheam club.

I brought a PIC tool but have never used it. Might be something to do this weekend.

If not I guess could send back for latest revision???

73

Paul MÃ□TZO

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> I think its an old revision of the firmware; nice pictures, thanks for
> putting them on U tube.
>
> Steve G6ALU

1383. Re: [mkars80] Re: Finally M0TZO's MKARS on the air

Yahoo group: mkars80
Date: 2009-12-08 22:56:07 UTC
From: Steve Drury
Topic: 1374 Message: 1383

Hi Paul,
Either way... have a go yourself though and add your callsign to the start up screen.

You will need to download MPLAB from www.microchip.com but don't be frightened of it!

Regards,
Steve G6ALU

----- Original Message -----
From: "m0tzo" <gadget17+yahoogroups@...>
To: <mkars80@...>
Sent: Tuesday, December 08, 2009 10:38 PM
Subject: [mkars80] Re: Finally M0TZO's MKARS on the air

Hi Steve,

It says 1.1 when powers up. I brought the kit in July 2008 when Steve visited Sutton & Cheam club.

I brought a PIC tool but have never used it. Might be something to do this weekend.

If not I guess could send back for latest revision???

73

Paul M?~TZO

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I think its an old revision of the firmware; nice pictures, thanks for
> putting them on U tube.
>
> Steve G6ALU

Yahoo! Groups Links

1384. Preamp for my MKARS

Yahoo group: mkars80
Date: 2009-12-09 04:51:55 UTC
From: Hasse
Topic: 1384 Message: 1384

Hi all !
I found a little preamp kit from KitsandParts.com, which i just have assembled.It`s built on a little pcb 4.5 x 3.2 cm,and i must say i was really surprised of what this little thing was doing with the signals.You can find measurement-data on his homepage.My wondering is if it`s ok to build it in to the MKARS-cabinet, between RX-out from relay to Cap-52, to avoid more relays outside the MKARS-box.Yes i know i will not be able to turn it off, but i don`t want so either.
Best 73 de SM6MPA/Hans-Göran

1385. Re: Measurments.....

Yahoo group: mkars80
Date: 2009-12-09 10:12:43 UTC
From: sm0yyq
Topic: 1377 Message: 1385

--- In mkars80@..., "sm0yyq" <sm0yyq@...> wrote:
>
> Hi All..
>
> Im new to this kit, and i have plans to brought one...
>
> I have a question about measurments on the kit and the using of an oscilloscope, is it a must to have one.?
>
> I dont have one at home.. and will i spoil the build of the kit if i dont get any?
>
> /M
>

Thanks all for the reply on my question, it will be some time until i can buy the kit.. and maybee i have a chanse to borrow a oscilloscope whan it's time to assemble the kit.

My first radio i brought was an FT817, and i realy like the QRP thing... soo i realy hope i can get this soon and get out on 80 Meters again =)

/M

1386. Re: Measurements.....

Yahoo group: mkars80
Date: 2009-12-10 02:08:47 UTC
From: vk2jdp
Topic: 1377 Message: 1386

You really don't need a CRO to complete the MKARS80 and get it on-air. As Steve said, you will need a fairly fine, HOT (~50W) soldering iron to relaibly tin and solder the inductors, but you would only need an oscilloscope if something was very wrong.

I have built a few transceivers over time, all home-brew. In these cases, a CRO was necessary as was I designing as I went. With the MKARS80, I thought 'I'll just BUILD it and see what happens'. My only problem was of my own doing, as I had mounted the PCB into a different enclosure. I cured the problem using common sense.

Only when I had it working on the bench did I bother to connect the CRO to look at the output - and it was clean-as. I needn't have bothered with the CRO...

If you want, see if you can borrow one afterwards for piece-of-mind but it is better to find a local ham that can assist you with an on-air test.

Regards,
Jon

--- In mkars80@..., "sm0yyq" <sm0yyq@...> wrote:
>
>
>
> --- In mkars80@..., "sm0yyq" <sm0yyq@> wrote:
> >
> > Hi All..
> >
> > Im new to this kit, and i have plans to brought one...
> >
> > I have a question about measurments on the kit and the using of an oscilloscope, is it a must to have one.?
> >
> > I dont have one at home.. and will i spoil the build of the kit if i dont get any?
> >
> > /M
> >
>
> Thanks all for the reply on my question, it will be some time until i can buy the kit.. and maybee i have a chanse to borrow a oscilloscope whan it's time to assemble the kit.
>
> My first radio i brought was an FT817, and i realy like the QRP thing... soo i realy hope i can get this soon and get out on 80 Meters again =)
>
> /M
>

1387. Re: [mkars80] Re: Measurements.....

Yahoo group: mkars80
Date: 2009-12-10 12:48:18 UTC
From: Tony Olewicz
Topic: 1377 Message: 1387

Homebrew has a special magic, so you will find someone at your radio club willing to help you with tests, and access to test gear. Most people who see the MKARS80 want one!
It also gets the conversation at the club away from "YaeCom" black boxes back to 'real radio', so you are doing everyone a favour. <g>

Most important tip
Enjoy the build, do it over a week or so - don't rush. Do it in 'bag sessions'.
Check your work from the last bag before starting on a new one.
Use a good work light and a magnifying glass.

I've mentioned my main 'gotchas' before but here they are again for anyone new...
(A 'gotcha' is problem that you have to take time to solve, but could have been avoided!)

1. Debur (remove sharp metal) from the hole used to mount the output transistor to the case.
I had a shard that shorted the tab to the case. Soon solved once spotted though!

2. Coils and transformers.
Strip the insulation and tin prior to soldering to the board, rather than leaving the act of soldering to the board to to this for you. This makes sure that you have good electrical contact. I had connection that looked connected but wasn't!

3. Binocular Cores.
Using a drill bit chamfer the holes slightly.
It will make winding easier and reduce risk of stripping the enamel.

4. Drilling the case.
Results using a hand drill are very poor. Use a stand drill.

Did I mention...
Take your time, work in bag batches and enjoy the build.

73
Tony

--- On Thu, 10/12/09, vk2jdp <jonpoint@...> wrote:

From: vk2jdp <jonpoint@...>
Subject: [mkars80] Re: Measurements.....
To: mkars80@...
Date: Thursday, 10 December, 2009, 2:08

You really don't need a CRO to complete the MKARS80 and get it on-air. As Steve said, you will need a fairly fine, HOT (~50W) soldering iron to relaibly tin and solder the inductors, but you would only need an oscilloscope if something was very wrong.

I have built a few transceivers over time, all home-brew. In these cases, a CRO was necessary as was I designing as I went. With the MKARS80, I thought 'I'll just BUILD it and

see what happens'. My only problem was of my own doing, as I had mounted the PCB into a different enclosure. I cured the problem using common sense.

Only when I had it working on the bench did I bother to connect the CRO to look at the output - and it was clean-as. I needn't have bothered with the CRO...

If you want, see if you can borrow one afterwards for piece-of-mind but it is better to find a local ham that can assist you with an on-air test.

Regards,
Jon

--- In mkars80@yahoogroups .co.uk, "sm0yyq" <sm0yyq@...> wrote:
>
>
>
> --- In mkars80@yahoogroups .co.uk, "sm0yyq" <sm0yyq@> wrote:
> >
> > Hi All..
> >
> > Im new to this kit, and i have plans to brought one...
> >
> > I have a question about measurments on the kit and the using of an oscilloscope, is it a must to have one.?
> >
> > I dont have one at home.. and will i spoil the build of the kit if i dont get any?
> >
> > /M
> >
>
> Thanks all for the reply on my question, it will be some time until i can buy the kit.. and maybee i have a chanse to borrow a oscilloscope whan it's time to assemble the kit.
>
> My first radio i brought was an FT817, and i realy like the QRP thing... soo i realy hope i can get this soon and get out on 80 Meters again =)
>
> /M
>

[Non-text portions of this message have been removed]

1388. Hello All

Yahoo group: mkars80
Date: 2009-12-12 16:31:22 UTC
From: robert
Topic: 1388 Message: 1388

Hi all Just thought I would say Hello, about to order this Kit, Just finished off an 80M DSB and now hooked.
No doubt I will pop in from time to time if I get stuck.
73

Rob M0TFO

1389. Re: [mkars80] Hello All

Yahoo group: mkars80
Date: 2009-12-12 16:53:02 UTC
From: Steve Drury
Topic: 1388 Message: 1389

Hi Rob,

Feel free to ask... might be worth a look in the photos section as there
have been some interesting departures from the "standard" product recently.

Steve G6ALU

----- Original Message -----
From: "robert" <robpegs@...>
To: <mkars80@...>
Sent: Saturday, December 12, 2009 4:31 PM
Subject: [mkars80] Hello All

> Hi all Just thought I would say Hello, about to order this Kit, Just
> finished off an 80M DSB and now hooked.
> No doubt I will pop in from time to time if I get stuck.
> 73
>
> Rob M0TFO
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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1390. "Interesting departures"

Yahoo group: mkars80
Date: 2009-12-12 18:07:34 UTC
From: Hasse
Topic: 1390 Message: 1390

Hello Steve (G6ALU) I`m very interesting to know what is "interesting-departures" in the photosection.I`m just curious !
best 73 de sm6mpa/hasse

1391. the G8EEY Hammond case

Yahoo group: mkars80
Date: 2009-12-12 19:03:24 UTC
From: mark
Topic: 1391 Message: 1391

Hi all I am looking to rehouse my MKARS-80 into one of the Hammond cases that G8EEY has used but I can not find the case can anyone help.
Thanks from Mark 2w0jmk

1392. Re: the G8EEY Hammond case

Yahoo group: mkars80
Date: 2009-12-12 19:19:16 UTC
From: panzerbeeb
Topic: 1391 Message: 1392

Hi Mark,

The cases are a range from Hammond, based in Canada, and available through Farnell :
http://uk.farnell.com/jsp/search/browse.jsp?N=1003600+8480+500006+597149+454465+570958&No=0&locale=en_UK&appliedparametrics=true&getResults=true&catalogId=&prevNValues=1003600+8480+500006+597149+454465&originalQueryURL=http%3A%2F%2Fuk.farnell.com%2Fjsp%2Fsearch%2Fbrowse.jsp%3FN%3D1003600%2B8480%2B500006%26No%3D0%26getResults%3Dtrue%26appliedparametrics%3Dtrue%26locale%3Den_UK%26catalogId%3D

ATU box : 31x160x160mm Hammond pt no 1455R1601, Farnell stock no 1511216

RT box ; 52x160x160mm Hammond pt no 1455T1601, Farnell stock no 1511218

They are a bit pricey, but are quite nice, I usually discard the plastic trims and fit the panels direct to the box. The boxes have internal pcb mounting slots, which are useful.

Some of the Hammond range is available from Maplin Electronics in the UK, http://www.maplin.co.uk/Module.aspx?ModuleNo=33690

and Rapid Electronics :
http://www.rapidonline.com/Tools-Fasteners-Production-Equipment/Cases/Metal-Cases/1455-Series-extruded-aluminium-enclosures-with-metal-end-panels/74372/kw/hammond

73s, Mike G8EEY

--- In mkars80@yahoogroups.co.uk, "mark" <mw3hqt@...> wrote:
>
> Hi all I am looking to rehouse my MKARS-80 into one of the Hammond cases that G8EEY has used but I can not find the case can anyone help.
> Thanks from Mark 2w0jmk
>

1393. Re: [mkars80] "Interesting departures"

Yahoo group: mkars80
Date: 2009-12-12 19:29:05 UTC
From: Steve Drury
Topic: 1390 Message: 1393

Here is my selection, I hope the links work!

http://uk.groups.yahoo.com/group/mkars80/photos/album/1558153678/pic/list

http://uk.groups.yahoo.com/group/mkars80/photos/album/813048579/pic/1865851803/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc

http://uk.groups.yahoo.com/group/mkars80/photos/album/1161832888/pic/401613264/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc

http://uk.groups.yahoo.com/group/mkars80/photos/album/678037508/pic/1036139782/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc

Steve G6ALU

----- Original Message -----
From: "Hasse" <sm6mpa@...>
To: <mkars80@...>
Sent: Saturday, December 12, 2009 6:07 PM
Subject: [mkars80] "Interesting departures"

> Hello Steve (G6ALU) I`m very interesting to know what is "interesting-
> departures" in the photosection.I`m just curious !
> best 73 de sm6mpa/hasse
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

1394. Re: [mkars80] "Interesting departures"

Yahoo group: mkars80
Date: 2009-12-12 20:31:03 UTC
From: Hans-Göran
Topic: 1390 Message: 1394

Yes Steve i agree !
They looks very proffesional.Some peoples have that talent and i must say i`m a little bit envious when i see it.But still, i`m a happy amateur !
73 de sm6mpa/hasse

[Non-text portions of this message have been removed]

1395. What's up with the photo and files pages?

Yahoo group: mkars80
Date: 2009-12-13 05:41:34 UTC
From: vk2jdp
Topic: 1395 Message: 1395

Has anyone noticed a problem with the photos and files pages? Mine will not display properly in Firefox or IE. Messages display fine, but the other pages are <bad>.

I tried accessing from a different PC and got the same results :-(

Regards,

Jon

1396. Re: [mkars80] What's up with the photo and files pages?

Yahoo group: mkars80
Date: 2009-12-13 07:20:34 UTC
From: Steve Bell
Topic: 1395 Message: 1396

Both pages appear normal here. I'm using Firefox on a Mac but this shouldn't make any difference. Perhaps it was a temporary Yahoo blip.

Steve M6SGB (who bought his MKARS80 from this years MKARS rally and will start building over the Christmas break)

On 13 Dec 2009, at 05:41, vk2jdp wrote:

> Has anyone noticed a problem with the photos and files pages? Mine
> will not display properly in Firefox or IE. Messages display fine,
> but the other pages are <bad>.
>
> I tried accessing from a different PC and got the same results :-(
>
> Regards,
>
> Jon
>

1397. Re: What's up with the photo and files pages?

Yahoo group: mkars80
Date: 2009-12-13 08:50:22 UTC
From: robert
Topic: 1395 Message: 1397

Yes all ok here to.

--- In mkars80@..., "vk2jdp" <jonpoint@...> wrote:
>
> Has anyone noticed a problem with the photos and files pages? Mine will not display properly in Firefox or IE. Messages display fine, but the other pages are <bad>.
>
> I tried accessing from a different PC and got the same results :-(
>
> Regards,
>
> Jon
>

1398. Re: [mkars80] What's up with the photo and files pages?

Yahoo group: mkars80
Date: 2009-12-13 10:47:24 UTC
From: John Housego
Topic: 1395 Message: 1398

Hello Jon,

I use Fire Fox 3.5.5 under Linux and the photo section displays OK here.

73 de John (M0TIF)

On Sun, 2009-12-13 at 05:41 +0000, vk2jdp wrote:

>
>
> Has anyone noticed a problem with the photos and files pages? Mine
> will not display properly in Firefox or IE. Messages display fine, but
> the other pages are <bad>.
>
> I tried accessing from a different PC and got the same results :-(
>
> Regards,
>
> Jon
>
>
>
>
>

[Non-text portions of this message have been removed]

1399. Re: [mkars80] What's up with the photo and files pages?

Yahoo group: mkars80
Date: 2009-12-13 14:00:11 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1395 Message: 1399

Works fine for me.
What exactly does <bad> mean>

vk2jdp wrote:
> Has anyone noticed a problem with the photos and files pages? Mine will not display properly in Firefox or IE. Messages display fine, but the other pages are <bad>.
>
> I tried accessing from a different PC and got the same results :-(
>
> Regards,
>
> Jon
>

1400. Re: [mkars80] What's up with the photo and files pages?

Yahoo group: mkars80
Date: 2009-12-13 16:19:52 UTC
From: Steve Bell
Topic: 1395 Message: 1400

I recently received a post from another Yahoo group mentioning photos were no longer displaying, just a box. Again, they are fine when I look. This seems an odd coincidence. In case its relevant I'm copying the reply from Petra Henderson in the FRG-7 group.

" If you are using "No Script" or similar as an add-on to your browser, you need to go down to the bottom right-hand corner of your browser window (where you will see a symbol like an "S" or like a "No Parking" sign (Red crcle with diagonal strike-through) that needs to be clicked on and the services responsible for allowing the pictures to be presented "Allowed".

this includes the setting and permissions for "Yimg.com" (Yahoo Images) which s the one I think you are blocking...

This also needs you to have an up to date version of Java installed on your PC. "

Steve M6SGB

On 13 Dec 2009, at 05:41, vk2jdp wrote:

> Has anyone noticed a problem with the photos and files pages? Mine
> will not display properly in Firefox or IE. Messages display fine,
> but the other pages are <bad>.
>
> I tried accessing from a different PC and got the same results :-(
>
> Regards,
>
> Jon
>

1401. Re: What's up with the photo and files pages?

Yahoo group: mkars80
Date: 2009-12-14 23:11:55 UTC
From: vk2jdp
Topic: 1395 Message: 1401

Well, there you go, it fixed itself!

Thanks to everyone who offerred a comment. Wish I knew what it was though...

As long as it works ;-)

Regards,

Jon

--- In mkars80@..., "vk2jdp" <jonpoint@...> wrote:
>
> Has anyone noticed a problem with the photos and files pages? Mine will not display properly in Firefox or IE. Messages display fine, but the other pages are <bad>.
>
> I tried accessing from a different PC and got the same results :-(
>
> Regards,
>
> Jon
>

1402. Re: "Interesting departures"

Yahoo group: mkars80
Date: 2009-12-15 04:25:03 UTC
From: vk2jdp
Topic: 1390 Message: 1402

Hans-Göran,

Yes, some of us cannot leave things alone. I suppose it comes with the hobby!

I am also installing an amp in mine - homebrew with 2x STP16NF06 mosfets in push-pull (30WPEP @ 11.5V). I will add the photos to my album when it is finished ;-)

If you have any questions, please post them.

Regards,
Jon

--- In mkars80@..., Hans-Göran <sm6mpa@...> wrote:
>
> Yes Steve i agree !
> They looks very proffesional.Some peoples have that talent and i must say i`m a little bit envious when i see it.But still, i`m a happy amateur !
> 73 de sm6mpa/hasse
>
> [Non-text portions of this message have been removed]
>

1403. Re: [mkars80] Re: "Interesting departures"

Yahoo group: mkars80
Date: 2009-12-15 09:55:03 UTC
From: John Housego
Topic: 1390 Message: 1403

Hello Jon,

Would be interested in how you get along with the PA and the design as I have been considering options to build a PA for the MKARS80 myself.

73 de John (M0TIF)
http://m0tif.blogspot.com/

On Tue, 2009-12-15 at 04:25 +0000, vk2jdp wrote:

>
>
> Hans-Göran,
>
> Yes, some of us cannot leave things alone. I suppose it comes with the
> hobby!
>
> I am also installing an amp in mine - homebrew with 2x STP16NF06
> mosfets in push-pull (30WPEP @ 11.5V). I will add the photos to my
> album when it is finished ;-)
>
> If you have any questions, please post them.
>
> Regards,
> Jon
>
> --- In mkars80@..., Hans-Göran <sm6mpa@...> wrote:
> >
> > Yes Steve i agree !
> > They looks very proffesional.Some peoples have that talent and i
> must say i`m a little bit envious when i see it.But still, i`m a happy
> amateur !
> > 73 de sm6mpa/hasse
> >
> > [Non-text portions of this message have been removed]
> >
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>

[Non-text portions of this message have been removed]

1404. Fw: Re: "Interesting departures"

Yahoo group: mkars80
Date: 2009-12-15 16:07:50 UTC
From: Hans-Göran
Topic: 1404 Message: 1404

Hello Jon !
I look forward to se your pictures of the PA to your MKARS.Yes it seems
to be so that we nerver will satisfied in our buildngs.That is the charm in
our hobby i think.Some projects goes right to the junkbox,and others will do
fine.My PA i built after Lofturs-TF3LJ ideas.It has 2 pcs
RD16HHF1 in the final.My preamp that i have pictures of in my album, i have
now add with an switch so i can turn it off i i so want.
best 73 de sm6mpa/hasse

1405. Re: "Interesting departures"

Yahoo group: mkars80
Date: 2009-12-16 06:05:03 UTC
From: vk2jdp
Topic: 1390 Message: 1405

John,

No problems, I will keep you informed. I have done a rough one and just have to finalise the PCB.

Mine has no VOX, it connects to the MKARS80's PTT. Saves a lot of components that way, and doesn't cut me off when I'm thinking LOL

It is designed to produce min. 25WPEP@11.5V, as it will be running from a battery. Should be good for ~40WPEP@13.8V. It has an ALC of sorts, and I was thinking of a BF998 preamp - hence why the PCB isn't done yet ;-)

Regards,
Jon

--- In mkars80@..., John Housego <John.Housego1@...> wrote:
>
> Hello Jon,
>
> Would be interested in how you get along with the PA and the design as I
> have been considering options to build a PA for the MKARS80 myself.
>
> 73 de John (M0TIF)
> http://m0tif.blogspot.com/
>
>
> On Tue, 2009-12-15 at 04:25 +0000, vk2jdp wrote:
>
> > >
> > >
> > > Hans-GÃ¶ran,
> > >
> > > Yes, some of us cannot leave things alone. I suppose it comes with the
> > > hobby!
> > >
> > > I am also installing an amp in mine - homebrew with 2x STP16NF06
> > > mosfets in push-pull (30WPEP @ 11.5V). I will add the photos to my
> > > album when it is finished ;-)
> > >
> > > If you have any questions, please post them.
> > >
> > > Regards,
> > > Jon
> > >
> > > --- In mkars80@..., Hans-GÃ¶ran <sm6mpa@> wrote:
> > > >

> > > Yes Steve i agree !
> > > They looks very proffesional.Some peoples have that talent and i
> > must say i`m a little bit envious when i see it.But still, i`m a happy
> > amateur !
> > > 73 de sm6mpa/hasse
> > >
> > > [Non-text portions of this message have been removed]
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>
>
> [Non-text portions of this message have been removed]
>

1406. Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 12:31:28 UTC
From: Darren
Topic: 1406 Message: 1406

Hi all

Finally got around to having a look into the issues I have after an initial test a couple of weeks ago.

The RX side of the radio is fine, however I have no output. The modulation led lights and the relay clicks on when I press the ptt but I have no output. I'm using a proven mic so that is eliminated.

I've checked over for bad joints etc and have measured all the ic/transistor voltages. All are OK except Q9 which is reading 2v on emitter but 6v on both base and collector which is different to the troubleshooting section of the manual. I'll change this but any other suggestions?

1407. Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 13:39:29 UTC
From: panzerbeeb
Topic: 1406 Message: 1407

Hi Darren,
Check the continuity between junction R32 / T3, and junction R37 / T3 / collector Q9. If not low ohms, check soldering of T3.

Mike G8EEY

--- In mkars80@..., "Darren" <darren_parvin@...> wrote:
>
> Hi all
>
> Finally got around to having a look into the issues I have after an initial test a couple of weeks ago.
>
> The RX side of the radio is fine, however I have no output. The modulation led lights and the relay clicks on when I press the ptt but I have no output. I'm using a proven mic so that is eliminated.
>
> I've checked over for bad joints etc and have measured all the ic/transistor voltages. All are OK except Q9 which is reading 2v on emitter but 6v on both base and collector which is different to the troubleshooting section of the manual. I'll change this but any other suggestions?
>

1408. Re: [mkars80] Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 14:14:27 UTC
From: Darren Parvin
Topic: 1406 Message: 1408

Mike

Thanks for the feedback, but this checks out OK.

Darren M0PRV

--- On Sun, 20/12/09, panzerbeeb <mike_mobbs@...> wrote:

From: panzerbeeb <mike_mobbs@...>
Subject: [mkars80] Re: Help, no TX
To: mkars80@yahoogroups.co.uk
Date: Sunday, 20 December, 2009, 13:39

Hi Darren,

Check the continuity between junction R32 / T3, and junction R37 / T3 / collector Q9. If not low ohms, check soldering of T3.

Mike G8EEY

--- In mkars80@yahoogroups .co.uk, "Darren" <darren_parvin@ ...> wrote:

>

> Hi all

>

> Finally got around to having a look into the issues I have after an initial test a couple of weeks ago.

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> The RX side of the radio is fine, however I have no output. The modulation led lights and the relay clicks on when I press the ptt but I have no output. I'm using a proven mic so that is eliminated.

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> I've checked over for bad joints etc and have measured all the ic/transistor voltages. All are OK except Q9 which is reading 2v on emitter but 6v on both base and collector which is different to the troubleshooting section of the manual. I'll change this but any other suggestions?

>

[Non-text portions of this message have been removed]

1409. Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 14:38:09 UTC
From: panzerbeeb
Topic: 1406 Message: 1409

OK Darren,
If the base volts reads +6 and the emitter reads +2 with no mod, then either Q9 is suspect e-b o/c, or in backwards? I assume the volts reading on R32 / T3 junction is +6 also?

Mike G8EEY

--- In mkars80@yahoogroups.co.uk, Darren Parvin <darren_parvin@...> wrote:
>
> Mike
>
> Thanks for the feedback, but this checks out OK.
>
> Darren M0PRV
>
> --- On Sun, 20/12/09, panzerbeeb <mike_mobbs@...> wrote:
>
> From: panzerbeeb <mike_mobbs@...>
> Subject: [mkars80] Re: Help, no TX
> To: mkars80@....uk
> Date: Sunday, 20 December, 2009, 13:39
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1410. Re: [mkars80] Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 14:48:31 UTC
From: Darren Parvin
Topic: 1406 Message: 1410

Yes, the R32/T3 junction is also +6v and Q9 is correct orientation.

I'll change Q9 and see where that takes me.

Thanks

Darren M0PRV

--- On Sun, 20/12/09, panzerbeeb <mike_mobbs@...> wrote:

From: panzerbeeb <mike_mobbs@...>
Subject: [mkars80] Re: Help, no TX
To: mkars80@yahoogroups.co.uk
Date: Sunday, 20 December, 2009, 14:38

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> Subject: [mkars80] Re: Help, no TX

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1411. Re: [mkars80] Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 14:53:04 UTC
From: Steve Drury
Topic: 1406 Message: 1411

Just a reminder that Q9 should be a MPSH10 - do you have a spare or do you want me to send you one?

Steve G6ALU

----- Original Message -----
From: "Darren Parvin" <darren_parvin@...>
To: <mkars80@...>
Sent: Sunday, December 20, 2009 2:48 PM
Subject: Re: [mkars80] Re: Help, no TX

Yes, the R32/T3 junction is also +6v and Q9 is correct orientation.

I'll change Q9 and see where that takes me.

Thanks

Darren M0PRV

--- On Sun, 20/12/09, panzerbeeb <mike_mobbs@...> wrote:

From: panzerbeeb <mike_mobbs@...>
Subject: [mkars80] Re: Help, no TX
To: mkars80@...
Date: Sunday, 20 December, 2009, 14:38

OK Darren,

If the base volts reads +6 and the emitter reads +2 with no mod, then either Q9 is suspect e-b o/c, or in backwards? I assume the volts reading on R32 / T3 junction is +6 also?

Mike G8EEY

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> Mike

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> Darren M0PRV

>

> --- On Sun, 20/12/09, panzerbeeb <mike_mobbs@ ...> wrote:

>

> From: panzerbeeb <mike_mobbs@ ...>

> Subject: [mkars80] Re: Help, no TX

> To: mkars80@yahoogroups .co.uk

> Date: Sunday, 20 December, 2009, 13:39

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Yahoo! Groups Links

1412. Re: [mkars80] Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 15:16:53 UTC
From: Darren Parvin
Topic: 1406 Message: 1412

Steve

I don't have a spare but have a local maplins and that was going to be
my first stop. If they don't have any I'll take you up on your offer.

Darren M0PRV

--- On Sun, 20/12/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Re: Help, no TX
To: mkars80@...
Date: Sunday, 20 December, 2009, 14:53

Just a reminder that Q9 should be a MPSH10 - do you have a spare or do you

want me to send you one?

Steve G6ALU

----- Original Message -----

From: "Darren Parvin" <darren_parvin@ yahoo.co. uk>

To: <mkars80@yahoogroups .co.uk>

Sent: Sunday, December 20, 2009 2:48 PM

Subject: Re: [mkars80] Re: Help, no TX

Yes, the R32/T3 junction is also +6v and Q9 is correct orientation.

I'll change Q9 and see where that takes me.

Thanks

Darren M0PRV

--- On Sun, 20/12/09, panzerbeeb <mike_mobbs@zen. co.uk> wrote:

From: panzerbeeb <mike_mobbs@zen. co.uk>

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To: mkars80@yahoogroups .co.uk

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Mike G8EEY

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Yahoo! Groups Links

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1413. Re: [mkars80] Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 15:27:40 UTC
From: Steve Drury
Topic: 1406 Message: 1413

Sorry Maplins don't sell them, we have to import them from the USA.

Please double check there isn't a short on the PCB then send me your address
by personal email - I will post you a couple tomorrow. I haven't had any
fail but have had shorts on the PCB.

Steve G6ALU

----- Original Message -----
From: "Darren Parvin" <darren_parvin@...>
To: <mkars80@...>
Sent: Sunday, December 20, 2009 3:16 PM
Subject: Re: [mkars80] Re: Help, no TX

Steve

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Subject: Re: [mkars80] Re: Help, no TX
To: mkars80@...
Date: Sunday, 20 December, 2009, 14:53

Just a reminder that Q9 should be a MPSH10 - do you have a spare or do
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want me to send you one?

Steve G6ALU

----- Original Message -----

From: "Darren Parvin" <darren_parvin@ yahoo.co. uk>

To: <mkars80@yahoogroups .co.uk>

Sent: Sunday, December 20, 2009 2:48 PM

Subject: Re: [mkars80] Re: Help, no TX

Yes, the R32/T3 junction is also +6v and Q9 is correct orientation.

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Thanks

Darren M0PRV

--- On Sun, 20/12/09, panzerbeeb <mike_mobbs@zen. co.uk> wrote:

From: panzerbeeb <mike_mobbs@zen. co.uk>

Subject: [mkars80] Re: Help, no TX

To: mkars80@yahoogroups .co.uk

Date: Sunday, 20 December, 2009, 14:38

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Mike G8EEY

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Yahoo! Groups Links

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Yahoo! Groups Links

1414. Re: [mkars80] Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 15:47:54 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1406 Message: 1414

22 pence each from www.digikey.co.uk

On 20-Dec-09 15:27, Steve Drury wrote:
> Sorry Maplins don't sell them, we have to import them from the USA.

1415. Re: [mkars80] Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-20 16:10:49 UTC
From: Darren Parvin
Topic: 1406 Message: 1415

OK I'll check out the PCB over the holiday and be in touch.

Nigel, thanks for the tip about digikey

Darren M0PRV

--- On Sun, 20/12/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Re: Help, no TX
To: mkars80@...
Date: Sunday, 20 December, 2009, 15:27

Sorry Maplins don't sell them, we have to import them from the USA.

Please double check there isn't a short on the PCB then send me your address

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Steve G6ALU

----- Original Message -----

From: "Darren Parvin" <darren_parvin@ yahoo.co. uk>

To: <mkars80@yahoogroups .co.uk>

Sent: Sunday, December 20, 2009 3:16 PM

Subject: Re: [mkars80] Re: Help, no TX

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From: Steve Drury <g6alu@tiscali. co.uk>

Subject: Re: [mkars80] Re: Help, no TX

To: mkars80@yahoogroups .co.uk

Date: Sunday, 20 December, 2009, 14:53

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----- Original Message -----

From: "Darren Parvin" <darren_parvin@ yahoo.co. uk>

To: <mkars80@yahoogroup s .co.uk>

Sent: Sunday, December 20, 2009 2:48 PM

Subject: Re: [mkars80] Re: Help, no TX

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From: panzerbeeb <mike_mobbs@ zen. co.uk>

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To: mkars80@yahoogroups .co.uk

Date: Sunday, 20 December, 2009, 14:38

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Yahoo! Groups Links

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Yahoo! Groups Links

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1416. My first transatlantic qso with MKARS

Yahoo group: mkars80
Date: 2009-12-21 02:14:15 UTC
From: Hasse
Topic: 1416 Message: 1416

Hi all !
This night i had my first contact with USA with my MKARS80 rig.
At 01.45 i worked K1JJ/ Tom in FN31SQ- grid (ab.5917 km)I got 46 and
my report for Tom was 57.
best 73 de sm6mpa/hans-göran

1417. Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-21 06:12:49 UTC
From: vk2jdp
Topic: 1406 Message: 1417

Q9 base should be ~0.7V above the emitter. I assume that you are checking from the PCB copper, not the actual transistor legs. I'd check soldering for Q9 - an NPN's base cannot be 4V above the emitter! If you can get in there, check the voltage at the transistor legs.

Also, check the soldering on T1 & T3.

Did you set the bias yet? You may get little or no output without bias.

Best of luck, keep us posted ;-)

Regards,
Jon

--- In mkars80@yahoogroups.co.uk, "Darren" <darren_parvin@...> wrote:
>
> Hi all
>
> Finally got around to having a look into the issues I have after an initial test a couple of weeks ago.
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> The RX side of the radio is fine, however I have no output. The modulation led lights and the relay clicks on when I press the ptt but I have no output. I'm using a proven mic so that is eliminated.
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1418. Re: My first transatlantic qso with MKARS

Yahoo group: mkars80
Date: 2009-12-21 06:14:52 UTC
From: vk2jdp
Topic: 1416 Message: 1418

Hans-Göran,

Nice work, congratulations!

Regards,
Jon

--- In mkars80@yahoogroups.co.uk, "Hasse" <sm6mpa@...> wrote:
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> Hi all !
> This night i had my first contact with USA with my MKARS80 rig.
> At 01.45 i worked K1JJ/ Tom in FN31SQ- grid (ab.5917 km)I got 46 and
> my report for Tom was 57.
> best 73 de sm6mpa/hans-göran
>

1419. Merry Christmas All, All the Best for 2010

Yahoo group: mkars80
Date: 2009-12-21 21:39:59 UTC
From: robert
Topic: 1419 Message: 1419

Merry Christmas,and all the best for 2010.
73
Rob M0TFO

1420. Re: My first transatlantic qso with MKARS

Yahoo group: mkars80
Date: 2009-12-22 09:02:34 UTC
From: sm0yyq
Topic: 1416 Message: 1420

Hi Hasse.

As i sad to u before in E-Mail, congratz for the nice QSO.. did u have 5 Watt output ?, and what type of antenna did u use?

--- In mkars80@..., "Hasse" <sm6mpa@...> wrote:
>
> Hi all !
> This night i had my first contact with USA with my MKARS80 rig.
> At 01.45 i worked K1JJ/ Tom in FN31SQ- grid (ab.5917 km)I got 46 and
> my report for Tom was 57.
> best 73 de sm6mpa/hans-göran
>

1421. Re: [mkars80] Re: My first transatlantic qso with MKARS

Yahoo group: mkars80
Date: 2009-12-22 10:35:09 UTC
From: G4DFV
Topic: 1416 Message: 1421

GR8! U wkd gd DX wid MKARS80 OM es FB 2 x SSB QSO!

73's de Duncan G4DFV

[Non-text portions of this message have been removed]

1422. Re: My first transatlantic qso with MKARS

Yahoo group: mkars80
Date: 2009-12-22 17:45:47 UTC
From: Hasse
Topic: 1416 Message: 1422

Hello Mattias and the group !
My antenna is a Windom FD4 from Fritzel mounted in north to south
direction.Yes the output was with No PA , so it was ab. 5 watt.At
last i will whish all the member of the group a happy Christmas
and a fine new year !
best 73 de sm6mpa/hasse

--- In mkars80@yahoogroups.co.uk, "sm0yyq" <sm0yyq@...> wrote:
>
> Hi Hasse.
>
> As i sad to u before in E-Mail, congratz for the nice QSO.. did u have 5 Watt output ?,
and what type of antenna did u use?
>
> --- In mkars80@..., "Hasse" <sm6mpa@> wrote:
> >
> > Hi all !
> > This night i had my first contact with USA with my MKARS80 rig.
> > At 01.45 i worked K1JJ/ Tom in FN31SQ- grid (ab.5917 km)I got 46 and
> > my report for Tom was 57.
> > best 73 de sm6mpa/hans-göran
> >
>

1423. Christmas

Yahoo group: mkars80
Date: 2009-12-23 17:17:29 UTC
From: owen.williams59
Topic: 1423 Message: 1423

A merry Christmas and good DX in the new year.

1424. Re: [mkars80] Christmas

Yahoo group: mkars80
Date: 2009-12-23 19:45:51 UTC
From: Bay Mete
Topic: 1423 Message: 1424

I wish a merry Christmas and happy new year for all the group members.
Mete TA3EP

[Non-text portions of this message have been removed]

1425. xmas

Yahoo group: mkars80
Date: 2009-12-24 08:15:46 UTC
From: m1evc
Topic: 1425 Message: 1425

Merry xmas to all and a Happy New Year to all members...Cant wait to unwrap my mkars80 kit in the morning!

1426. Re: [mkars80] xmas

Yahoo group: mkars80
Date: 2009-12-24 09:45:39 UTC
From: Peter Fraser
Topic: 1425 Message: 1426

Merry Christmas and Happy New Year to all and I also can't wait to unwrap my MKARS80 in the morning.

And I will be 11 hours ahead of John.

Peter VK3ZPF

----- Original Message -----
From: m1evc
To: mkars80@...
Sent: Thursday, December 24, 2009 7:15 PM
Subject: [mkars80] xmas

Merry xmas to all and a Happy New Year to all members...Cant wait to unwrap my mkars80 kit in the morning!

[Non-text portions of this message have been removed]

1427. RE: [mkars80] xmas

Yahoo group: mkars80
Date: 2009-12-24 10:12:32 UTC
From: rob styles
Topic: 1425 Message: 1427

Iv'e got 3 young children, so I may win the race.

Rob

To: mkars80@yahoogroups.co.uk
From: pfraser@...
Date: Thu, 24 Dec 2009 20:45:39 +1100
Subject: Re: [mkars80] xmas

Merry Christmas and Happy New Year to all and I also can't wait to unwrap my MKARS80 in the morning.

And I will be 11 hours ahead of John.

Peter VK3ZPF

----- Original Message -----
From: m1evc
To: mkars80@...
Sent: Thursday, December 24, 2009 7:15 PM
Subject: [mkars80] xmas

Merry xmas to all and a Happy New Year to all members...Cant wait to unwrap my mkars80 kit in the morning!

[Non-text portions of this message have been removed]

_____
View your other email accounts from your Hotmail inbox. Add them now.
http://clk.atdmt.com/UKM/go/186394592/direct/01/

[Non-text portions of this message have been removed]

1429. xmas

Yahoo group: mkars80
Date: 2009-12-24 11:20:04 UTC
From: Graham Bloor
Topic: 1425 Message: 1429

Merry christmas and Happy New Year to all es gud DX Graham G3UD

[Non-text portions of this message have been removed]

1430. Merry Christmas from the other side...

Yahoo group: mkars80
Date: 2009-12-24 11:47:31 UTC
From: vk2jdp
Topic: 1430 Message: 1430

With an hour and 15 minutes to go, I'd like to wish everyone an enjoyable Christmas and a Happy New Year.

All the best and good DX from Sydney, Australia ;-)

Jon Point VK2JDP

1431. Re: [mkars80] Re: Help, no TX

Yahoo group: mkars80
Date: 2009-12-24 15:28:27 UTC
From: Darren Parvin
Topic: 1406 Message: 1431

Steve

Received the package this am, many thanks.

I'll let you know how I get on.

Darren M0PRV

Oh and Merry Christmas to the group

--- On Sun, 20/12/09, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@tiscali.co.uk>
Subject: Re: [mkars80] Re: Help, no TX
To: mkars80@yahoogroups.co.uk
Date: Sunday, 20 December, 2009, 15:27

Sorry Maplins don't sell them, we have to import them from the USA.

Please double check there isn't a short on the PCB then send me your address

by personal email - I will post you a couple tomorrow. I haven't had any

fail but have had shorts on the PCB.

Steve G6ALU

----- Original Message -----

From: "Darren Parvin" <darren_parvin@ yahoo.co. uk>

To: <mkars80@yahoogroups .co.uk>

Sent: Sunday, December 20, 2009 3:16 PM

Subject: Re: [mkars80] Re: Help, no TX

Steve

I don't have a spare but have a local maplins and that was going to be

my first stop. If they don't have any I'll take you up on your offer.

Darren M0PRV

--- On Sun, 20/12/09, Steve Drury <g6alu@tiscali. co.uk> wrote:

From: Steve Drury <g6alu@tiscali. co.uk>

Subject: Re: [mkars80] Re: Help, no TX

To: mkars80@yahoogroups .co.uk

Date: Sunday, 20 December, 2009, 14:53

Just a reminder that Q9 should be a MPSH10 - do you have a spare or do

you

want me to send you one?

Steve G6ALU

----- Original Message -----

From: "Darren Parvin" <darren_parvin@ yahoo.co. uk>

To: <mkars80@yahoogroup s .co.uk>

Sent: Sunday, December 20, 2009 2:48 PM

Subject: Re: [mkars80] Re: Help, no TX

Yes, the R32/T3 junction is also +6v and Q9 is correct orientation.

I'll change Q9 and see where that takes me.

Thanks

Darren M0PRV

--- On Sun, 20/12/09, panzerbeeb <mike_mobbs@ zen. co.uk> wrote:

From: panzerbeeb <mike_mobbs@ zen. co.uk>

Subject: [mkars80] Re: Help, no TX

To: mkars80@yahoogroups .co.uk

Date: Sunday, 20 December, 2009, 14:38

OK Darren,

If the base volts reads +6 and the emitter reads +2 with no mod, then either

Q9 is suspect e-b o/c, or in backwards? I assume the volts reading on R32 /

T3 junction is +6 also?

Mike G8EEY

--- In mkars80@yahoogroups .co.uk, Darren Parvin <darren_parvin@ ...> wrote:

>

> Mike

>

> Thanks for the feedback, but this checks out OK.

>

> Darren M0PRV

>

> --- On Sun, 20/12/09, panzerbeeb <mike_mobbs@ ...> wrote:

>

> From: panzerbeeb <mike_mobbs@ ...>

> Subject: [mkars80] Re: Help, no TX

> To: mkars80@yahoogroups .co.uk

> Date: Sunday, 20 December, 2009, 13:39

>

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> Hi Darren,

>

> Check the continuity between junction R32 / T3, and junction R37 / T3 /

> collector Q9. If not low ohms, check soldering of T3.

>

>

>

> Mike G8EEY

>

>

>

> --- In mkars80@yahoogroups .co.uk, "Darren" <darren_parvin@ ...> wrote:

>

> >

>

> > Hi all

>

> >

>

> > Finally got around to having a look into the issues I have after an

> > initial test a couple of weeks ago.

>

> >

>

> > The RX side of the radio is fine, however I have no output. The

> > modulation led lights and the relay clicks on when I press the ptt but I

> > have no output. I'm using a proven mic so that is eliminated.

>

> >

>

> > I've checked over for bad joints etc and have measured all the

> > ic/transistor voltages. All are OK except Q9 which is reading 2v on

> > emitter but 6v on both base and collector which is different to the

> > troubleshooting section of the manual. I'll change this but any other

> > suggestions?

>

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> [Non-text portions of this message have been removed]

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Yahoo! Groups Links

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

1432. Re: [mkars80] Christmas

Yahoo group: mkars80
Date: 2009-12-24 17:31:09 UTC
From: Steve Bell
Topic: 1423 Message: 1432

Wishing everyone a Merry Christmas and may 2010 bring you many MKARS80 dx contacts.

I finally start building mine over the holiday break, but you won't hear me until I pass my intermediate exam next year.

Steve M6SGB

1433. Re: [mkars80] Merry Christmas from the other side...

Yahoo group: mkars80
Date: 2009-12-24 19:20:32 UTC
From: UR0ET
Topic: 1430 Message: 1433

Merry Christmas to all!

And Happy New Year!

Be happy!

73!

Vlad - UR0ET -
Ukraine

--
С уважением,
UR0ET mailto:ur0et@...

1434. Re: [mkars80] Merry Christmas from the other side...

Yahoo group: mkars80
Date: 2009-12-24 19:24:23 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1430 Message: 1434

And a Happy New Merry from this other side too.

On 24-Dec-09 19:20, UR0ET wrote:
> Merry Christmas to all!
>
> And Happy New Year!
>
> Be happy!
>
> 73!
>
> Vlad - UR0ET -
> Ukraine

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.

1435. RE: [mkars80] Merry Christmas from the other side...

Yahoo group: mkars80
Date: 2009-12-24 19:30:18 UTC
From: David White
Topic: 1430 Message: 1435

ok nigel, hope you get a 1 kilowatt amp from cynda hehehehe best wishes de G3ZPA

NNNN

To: mkars80@...
From: nigel@ngunn.net
Date: Thu, 24 Dec 2009 19:24:23 +0000
Subject: Re: [mkars80] Merry Christmas from the other side...

And a Happy New Merry from this other side too.

On 24-Dec-09 19:20, UR0ET wrote:
> Merry Christmas to all!
>
> And Happy New Year!
>
> Be happy!
>
> 73!
>
> Vlad - UR0ET -
> Ukraine

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.

Have more than one Hotmail account? Link them together to easily access both
http://clk.atdmt.com/UKM/go/186394591/direct/01/

[Non-text portions of this message have been removed]

1436. Re: [mkars80] Merry Christmas from the other side...

Yahoo group: mkars80
Date: 2009-12-24 19:39:58 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1430 Message: 1436

Hi David

Didn't know you had an MKARS80.

An amplifier wouldn't be much use. I need to get rid of this neighbour who complaind to the council every time I move
and get a working antenna up.
Unfortunately, I'm limited to a maximum of 30 feet for a tower and 38ft total antenna height.
That's not really enough for HF.

On 24-Dec-09 19:30, David White wrote:
>
> ok nigel, hope you get a 1 kilowatt amp from cynda hehehehe best wishes de G3ZPA
>
>
>
> NNNN
>
>
>
>
>
>
>
> To: mkars80@...
> From: nigel@...
> Date: Thu, 24 Dec 2009 19:24:23 +0000
> Subject: Re: [mkars80] Merry Christmas from the other side...
>
>
>
>
>
> And a Happy New Merry from this other side too.
>
> On 24-Dec-09 19:20, UR0ET wrote:
>> Merry Christmas to all!
>>
>> And Happy New Year!
>>
>> Be happy!
>>
>> 73!
>>
>> Vlad - UR0ET -

>> Ukraine
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.722 / Virus Database: 270.14.119/2585 - Release Date: 12/24/09 08:11:00
>

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.

1437. RE: [mkars80] Merry Christmas from the other side...

Yahoo group: mkars80
Date: 2009-12-24 20:50:06 UTC
From: David White
Topic: 1430 Message: 1437

well no nigel i do not have an MKARS80 but have been on this 80 net since steve set it up as i am very interested in the problems various people have experienced when building them. i am using a home brew 4 watt valve transmitter and a 1937 HRO. sorry to hear about problem neighbours. but i am using a 2 element wire dipole beam at 18 feet and it gets me into the USA (well eastern seaboard anyway) so theres hope yet. anyway best wishes david G3ZPA

NNNN

> Date: Thu, 24 Dec 2009 19:39:58 +0000
> From: nigel@...
> To: mkars80@...
> CC: davidwhite400@...
> Subject: Re: [mkars80] Merry Christmas from the other side...
>
> Hi David
>
> Didn't know you had an MKARS80.
>
> An amplifier wouldn't be much use. I need to get rid of this neighbour who complaind to the council every time I move
> and get a working antenna up.
> Unfortunately, I'm limited to a maximum of 30 feet for a tower and 38ft total antenna height.
> That's not really enough for HF.
>
> On 24-Dec-09 19:30, David White wrote:
> >
> > ok nigel, hope you get a 1 kilowatt amp from cynda hehehehe best wishes de G3ZPA
> >
> >
> >
> > NNNN
> >
> >
> >
> >
> >
> >
> >
> > To: mkars80@...
> > From: nigel@...
> > Date: Thu, 24 Dec 2009 19:24:23 +0000
> > Subject: Re: [mkars80] Merry Christmas from the other side...
> >
> >

> >
> >
> >
> > And a Happy New Merry from this other side too.
> >
> > On 24-Dec-09 19:20, UR0ET wrote:
> >> Merry Christmas to all!
> >>
> >> And Happy New Year!
> >>
> >> Be happy!
> >>
> >> 73!
> >>
> >> Vlad - UR0ET -
> >> Ukraine
> >
> >
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 9.0.722 / Virus Database: 270.14.119/2585 - Release Date: 12/24/09 08:11:00
> >
>
> --
> Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
> Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
> Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International
#385,
> Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.
>

_____
Use Hotmail to send and receive mail from your different email accounts
http://clk.atdmt.com/UKM/go/186394592/direct/01/

[Non-text portions of this message have been removed]

1438. Merry Christmas

Yahoo group: mkars80
Date: 2009-12-24 23:07:29 UTC
From: Steve Drury
Topic: 1438 Message: 1438

I've missed the last couple of Sunday nets but hope to be their this week. There is a "Winters sports" contest starting on Boxing day and going through to new years day - see the article on the G-QRP club webpage http://www.gqrp.com/awards.htm . It would be nice to hear a few MKARS80s on the band!

Merry Christmas and a happy new year.....

Steve G6ALU and Val M6FLO

[Non-text portions of this message have been removed]

1439. Merry Christmas to you all

Yahoo group: mkars80
Date: 2009-12-24 23:14:39 UTC
From: g4pqp
Topic: 1439 Message: 1439

Hi , I would just like to wish you all a very merry Christmas and a happy new year . I look forward to hooking up with you all again on the Sunday nets as soon as I can replace my antenna which came down in the extremely strong wind that we had here last week . My next antenna will be an 80 meter dipole @70 ft. It will be interesting to compare it with my previous antenna , a G5RV at the same height . 73`s and good DX . Phil G4pqp Cromer Norfolk.

1440. Re: [mkars80] Merry Christmas

Yahoo group: mkars80
Date: 2009-12-25 07:32:07 UTC
From: Jirka-Vol
Topic: 1438 Message: 1440

Mery christmas for all - de OK2JIQ Jirka
>
> __________ Informace od NOD32 4715 (20091224) __________
>
> Tato zprava byla proverena antivirovym systemem NOD32.
> http://www.nod32.cz

--
Tato zpr?va byla vytvo?ena p?evratn?m po?tovn?m klientem Opery:
http://www.opera.com/mail/

1441. Re: [mkars80] Merry Christmas to you all

Yahoo group: mkars80
Date: 2009-12-25 09:48:44 UTC
From: DAVID CLENCH
Topic: 1439 Message: 1441

Best wishes to all the group. Hope to be on Sunday morning.

73 Dave G0BVV

From: g4pqp <g4pqp@...>
To: mkars80@...
Sent: Thursday, 24 December, 2009 23:14:39
Subject: [mkars80] Merry Christmas to you all

Hi , I would just like to wish you all a very merry Christmas and a happy new year . I look forward to hooking up with you all again on the Sunday nets as soon as I can replace my antenna which came down in the extremely strong wind that we had here last week . My next antenna will be an 80 meter dipole @70 ft. It will be interesting to compare it with my previous antenna , a G5RV at the same height . 73`s and good DX . Phil G4pqp Cromer Norfolk.

[Non-text portions of this message have been removed]

1442. Re: Merry Christmas to all of you

Yahoo group: mkars80
Date: 2009-12-25 10:01:59 UTC
From: pa0rcl
Topic: 1439 Message: 1442

May I wish you all a merry Christmas and a happy 2010. I will try the net once more coming Sunday.

Sincerely,

Ron pa0rcl

1443. My rig is working

Yahoo group: mkars80
Date: 2009-12-26 14:02:16 UTC
From: Call sign M0NDE
Topic: 1443 Message: 1443

Hi to all on the list
I completed the construction this morning, all worked first time.
Now on to the second one for my friend. I had a couple of ceramics missing, but otherwise all fine.
I am using an old cb mike, does this mean I should leave r17 in?
I have left my r2 fully anticlockwise for now until I have a heatsink on q1.
Next I will probably add cw as an option.
73 Nigel M0NDE

1444. Re: [mkars80] My rig is working

Yahoo group: mkars80
Date: 2009-12-26 20:38:55 UTC
From: Steve Drury
Topic: 1443 Message: 1444

Hello Nigel,

Sorry to hear we left some ceramics out - must have been one I packed!
Please let me know if you would like them replaced....

If using a dynamic microphone it is best to leave the resistor out or
alternatively fit a cpacitor in series - a 1uF should do the trick, positive
end to the rig.

Steve G6ALU

----- Original Message -----
From: "Call sign M0NDE" <nigel.m0nde@...>
To: <mkars80@...>
Sent: Saturday, December 26, 2009 2:02 PM
Subject: [mkars80] My rig is working

> Hi to all on the list
> I completed the construction this morning, all worked first time.
> Now on to the second one for my friend. I had a couple of ceramics
> missing, but otherwise all fine.
> I am using an old cb mike, does this mean I should leave r17 in?
> I have left my r2 fully anticlockwise for now until I have a heatsink on
> q1.
> Next I will probably add cw as an option.
> 73 Nigel M0NDE
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1445. Display colors black

Yahoo group: mkars80
Date: 2009-12-27 10:04:35 UTC
From: Ernest Neijenhuis
Topic: 1443 Message: 1445

Goodmorning,

It bought this kit in june 2008 to see if this is something to introduce as a project for the local radio club. I was seriously impressed by the quality of the kit, especially the documentation!

During the fieldday in 2008 my wife started assembling it. But back home again we had so many other things to do, so it soon ended up on one of the shelfs here in our shack. There it stayed for over a year, collecting dust and so...

But finally... this week we found some time again to work on it. Yesterday we finished assembling the PCB, This morning I plugged in the speaker, antenna and power and we immediately received lots of stations. So the receiver seems to be FB!

Then we inserted the PIC and put the display on the rear site of the PCB. Unfortunately that display doesn't give any reading, all cells turn black when powered on, nothing else happens. I verified some DC voltages, this seems to be ok. Any suggestions what could be wrong? Maybe the PIC? Is there a way to determine wether the PIC is working or not?

73,
Ernest PA3HCM & Wytske PD2W

1446. Re: [mkars80] Display colors black

Yahoo group: mkars80
Date: 2009-12-27 10:32:06 UTC
From: Steve Drury
Topic: 1443 Message: 1446

Hello Ernest,

If all 32 squares are black try adjusting R29 the display bias (contrast) control, I'm sure this will sort it.

Regards,
Steve G6ALU

----- Original Message -----
From: "Ernest Neijenhuis" <ernest@...>
To: <mkars80@...>
Sent: Sunday, December 27, 2009 10:04 AM
Subject: [mkars80] Display colors black

> Goodmorning,
>
> It bought this kit in june 2008 to see if this is something to introduce
> as a project for the local radio club. I was seriously impressed by the
> quality of the kit, especially the documentation!
>
> During the fieldday in 2008 my wife started assembling it. But back home
> again we had so many other things to do, so it soon ended up on one of the
> shelfs here in our shack. There it stayed for over a year, collecting dust
> and so...
>
> But finally... this week we found some time again to work on it. Yesterday
> we finished assembling the PCB, This morning I plugged in the speaker,
> antenna and power and we immediately received lots of stations. So the
> receiver seems to be FB!
>
> Then we inserted the PIC and put the display on the rear site of the PCB.
> Unfortunately that display doesn't give any reading, all cells turn black
> when powered on, nothing else happens. I verified some DC voltages, this
> seems to be ok. Any suggestions what could be wrong? Maybe the PIC? Is
> there a way to determine wether the PIC is working or not?
>
> 73,
> Ernest PA3HCM & Wytske PD2W
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

>

1447. Re: [mkars80] Display colors black

Yahoo group: mkars80
Date: 2009-12-27 11:04:23 UTC
From: Ernest Neijenhuis
Topic: 1443 Message: 1447

Ah... how simple a solution can be ;-)

I have a perfect reading now. Now I have to tune it into the band. I adjusted the trimmer on the big varicon, but I can't trim it down to the CW part of the band. But I will continue with the manual now on how to adjust the TRX.

Thanks for the quick reply!

73,
Ernest PA3HCM

--
On Sun, Dec 27, 2009 at 10:32:06AM -0000, Steve Drury wrote:
> Hello Ernest,
>
> If all 32 squares are black try adjusting R29 the display bias (contrast)
> control, I'm sure this will sort it.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Ernest Neijenhuis" <ernest@...>
> To: <mkars80@...>
> Sent: Sunday, December 27, 2009 10:04 AM
> Subject: [mkars80] Display colors black
>
>
> > Goodmorning,
> >
> > It bought this kit in june 2008 to see if this is something to introduce
> > as a project for the local radio club. I was seriously impressed by the
> > quality of the kit, especially the documentation!
> >
> > During the fieldday in 2008 my wife started assembling it. But back home
> > again we had so many other things to do, so it soon ended up on one of the
> > shelfs here in our shack. There it stayed for over a year, collecting dust
> > and so...
> >
> > But finally... this week we found some time again to work on it. Yesterday
> > we finished assembling the PCB, This morning I plugged in the speaker,
> > antenna and power and we immediately received lots of stations. So the
> > receiver seems to be FB!
> >
> > Then we inserted the PIC and put the display on the rear site of the PCB.
> > Unfortunately that display doesn't give any reading, all cells turn black

> > when powered on, nothing else happens. I verified some DC voltages, this
> > seems to be ok. Any suggestions what could be wrong? Maybe the PIC? Is
> > there a way to determine wether the PIC is working or not?
> >
> > 73,
> > Ernest PA3HCM & Wytske PD2W
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

1448. OOoops, not working

Yahoo group: mkars80
Date: 2009-12-31 18:22:24 UTC
From: Luis
Topic: 1448 Message: 1448

Hi to all:
The first excuse my bad English, not so long ago that I practice.
I finished setting up my MKARS80 and Oops does not work
First visual inspection --- OK
Tensions in R34 (5v) and VR2 (8v) --- OK
Short circuit --- OK
Connect PIC and LCD --- ops
The display shows the first line fully illuminated, the second only partially.
Adjust the display contrast (R29) and the situation does not improve
No welcome message and shows the supply voltage.
Position is checked every component --- apparently OK
PIC firmware is checked --- OK
TP is checked Mhz 10Mhz --- 0 --- Bad
TP is checked Mhz VFO --- 0 --- ?????

Is all this wrong? What's going on? ¿Mounting problem?
Suggestions to solve this

72's EB4EPY Luis from Ciudad Real (Spain)

1449. Re: [mkars80] OOoops, not working

Yahoo group: mkars80
Date: 2010-01-01 10:43:32 UTC
From: Steve Drury
Topic: 1448 Message: 1449

Happy new year Luis!

Bad news that your radio doesn't work - the first thing you must do is check ALL the transistor voltages (in receive) and compare against the chart in the manual.

Note that the micro gets its clock from the BFO oscillator, this means you will not get a display until the VFO works.

Come back here if you don't have any luck.

Regards,
Steve G6ALU

----- Original Message -----
From: "Luis" <vagubix@...>
To: <mkars80@...>
Sent: Thursday, December 31, 2009 6:22 PM
Subject: [mkars80] OOoops, not working

Hi to all:
The first excuse my bad English, not so long ago that I practice.
I finished setting up my MKARS80 and Oops does not work
First visual inspection --- OK
Tensions in R34 (5v) and VR2 (8v) --- OK
Short circuit --- OK
Connect PIC and LCD --- ops
The display shows the first line fully illuminated, the second only partially.
Adjust the display contrast (R29) and the situation does not improve
No welcome message and shows the supply voltage.
Position is checked every component --- apparently OK
PIC firmware is checked --- OK
TP is checked Mhz 10Mhz --- 0 --- Bad
TP is checked Mhz VFO --- 0 --- ?????

Is all this wrong? What's going on? ?Mounting problem?
Suggestions to solve this

72's EB4EPY Luis from Ciudad Real (Spain)

Yahoo! Groups Links

1450. new year event

Yahoo group: mkars80
Date: 2010-01-02 16:29:57 UTC
From: m1evc
Topic: 1450 Message: 1450

At 2am on new years morning I recieved my first signals on my mkars80 albeit in the broadcast area and in chinese!...Later in the day I fitted the lcd unit to discover I was on 4mhz and up...but managed to tame the beast by adjusting the orange thingy on the back haha.....Had great fun with the display not wanting to make good contact so have hard wired it in place using thin telephone cable (pretty colours)...and now have to put it in its case..although I cant find your drilling template Steve?...Anyway...if I can get it to transmit by tommorow morning I will try to join the net.(if there is one) or maybe just say hello via mk V field.....Has anybody else finished or modified in the last week or so?...73's from Sunny Peacehaven

1451. Re: [mkars80] new year event

Yahoo group: mkars80
Date: 2010-01-02 16:36:00 UTC
From: Steve Drury
Topic: 1450 Message: 1451

John,

Here is a link to the drilling template
http://www.radio-kits.co.uk/radio-related/MKARS80/MKARS80_Drilling_Template.pdf I
hope to hold a net tomorrow morning but if I'm not there anyone can have a
go!

Net - Sunday 3.690MHz @ 09:30 UTC

Steve G6ALU

----- Original Message -----
From: "m1evc" <john.branch@...>
To: <mkars80@...>
Sent: Saturday, January 02, 2010 4:29 PM
Subject: [mkars80] new year event

> At 2am on new years morning I recieved my first signals on my mkars80
> albeit in the broadcast area and in chinese!...Later in the day I fitted
> the lcd unit to discover I was on 4mhz and up...but managed to tame the
> beast by adjusting the orange thingy on the back haha.....Had great fun
> with the display not wanting to make good contact so have hard wired it in
> place using thin telephone cable (pretty colours)...and now have to put it
> in its case..although I cant find your drilling template
> Steve?...Anyway...if I can get it to transmit by tommorow morning I will
> try to join the net.(if there is one) or maybe just say hello via mk V
> field.....Has anybody else finished or modified in the last week or
> so?...73's from Sunny Peacehaven
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1452. RE: [mkars80] new year event

Yahoo group: mkars80
Date: 2010-01-02 17:38:30 UTC
From: David White
Topic: 1450 Message: 1452

hello steve, just to let you know Phil who works in the Colossus room built his MKARS80 in 12 hours flat and it worked perfectly first time. he only passed his foundation licence recently with andrew and frank as tutors and now has an M6 call, he will be putting up a proper aerial ASAP. de G3ZPA

NNNN

To: mkars80@...
From: g6alu@....uk
Date: Sat, 2 Jan 2010 16:36:00 +0000
Subject: Re: [mkars80] new year event

John,

Here is a link to the drilling template
http://www.radio-kits.co.uk/radio-related/MKARS80/MKARS80_Drilling_Template.pdf I hope to hold a net tomorrow morning but if I'm not there anyone can have a go!

Net - Sunday 3.690MHz @ 09:30 UTC

Steve G6ALU

----- Original Message -----
From: "m1evc" <john.branch@...>
To: <mkars80@...>
Sent: Saturday, January 02, 2010 4:29 PM
Subject: [mkars80] new year event

> At 2am on new years morning I recieved my first signals on my mkars80
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> so?...73's from Sunny Peacehaven
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

>
>

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[Non-text portions of this message have been removed]

1453. Building my mkars80

Yahoo group: mkars80
Date: 2010-01-02 21:22:27 UTC
From: zip
Topic: 1453 Message: 1453

Hi all,

Having spent some 12 hours over Christmas building my mkars80, when I applied power to it I was very disappointed only to find that it worked first time.

All I have to do now is to find a piece of wet string that I can run down the length of the garden to connect it to.

Being serious, excellent kit with high quality components and unambiguous instructions, it gets my recommendations. All I've got to do is sort out a ½ wave length antenna then I will be able to make full use of it.

73s,

Phil

1454. Re: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-02 22:04:32 UTC
From: Steve Bell
Topic: 1453 Message: 1454

I started my MKARS80 over the Christmas too, but have only fitted bags 1, 2 and 3. Now I'm tied up completing last years expenses for work and printing / mounting for my photography clubs competition next week, I've run out of free time. At least I've started, I've had the kit since the last MKARS rally.

I can only echo Phil's comments, a first class kit and foolproof instructions.

Steve

On 2 Jan 2010, at 21:22, zip wrote:

> Hi all,
>
> Having spent some 12 hours over Christmas building my mkars80, when
> I applied power to it I was very disappointed only to find that it
> worked first time.
>
> All I have to do now is to find a piece of wet string that I can run
> down the length of the garden to connect it to.
>
> Being serious, excellent kit with high quality components and
> unambiguous instructions, it gets my recommendations. All I've got
> to do is sort out a ½ wave length antenna then I will be able to
> make full use of it.
>
> 73s,
>
> Phil
>
>
>

1455. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 10:47:14 UTC
From: David White
Topic: 1453 Message: 1455

i beat you to it Phil, i told steve you did it in 12 hours flat. i think the success is due to that soldering iron nr 8 which gives out more heat. you didnt tell me yesterday if you had put it in a case yet, if so you can bring it in to BP and let us have a look at it.
david G3ZPA

NNNN

To: mkars80@...
From: phil-yah@...
Date: Sat, 2 Jan 2010 21:22:27 +0000
Subject: [mkars80] Building my mkars80

Hi all,

Having spent some 12 hours over Christmas building my mkars80, when I applied power to it I was very disappointed only to find that it worked first time.

All I have to do now is to find a piece of wet string that I can run down the length of the garden to connect it to.

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73s,

Phil

_____
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[Non-text portions of this message have been removed]

1456. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 17:42:00 UTC
From: Phil
Topic: 1453 Message: 1456

Dave,

It's fully cased, but I drilled the case several days prior to working on the PCB. The case probably took another hour, but getting the drilling template to size took over 2 hours.

I was lucky that after I printed out the template I checked it for size, if I hadn't and drilled the case the case would have been useless as the hols would have all been in the wrong place.

If I remember I will bring it with me next Saturday.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf Of David White
Sent: 03 January 2010 10:47
To: mkars80@...
Subject: RE: [mkars80] Building my mkars80

i beat you to it Phil, i told steve you did it in 12 hours flat. i think the success is due to that soldering iron nr 8 which gives out more heat. you didnt tell me yesterday if you had put it in a case yet, if so you can bring it in to BP and let us have a look at it. david G3ZPA

NNNN

To: mkars80@...
From: phil-yah@...
Date: Sat, 2 Jan 2010 21:22:27 +0000
Subject: [mkars80] Building my mkars80

Hi all,

Having spent some 12 hours over Christmas building my mkars80, when I applied power to it I was very disappointed only to find that it worked first time.

All I have to do now is to find a piece of wet string that I can run down the length of the garden to connect it to.

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73s,

Phil

_____
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

1457. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 18:41:11 UTC
From: David White
Topic: 1453 Message: 1457

ok phil, when you get an aerial up you might try calling in to the MKARS80 net which is on sunday mornings at 0930z on 3.690 Kc/s. steve G6ALU can then give you a critical report. thanks for the LNB the insides of which i have never seen before. david G3ZPA

NNNN

To: mkars80@yahoogroups.co.uk
From: phil-yah@...
Date: Sun, 3 Jan 2010 17:42:00 +0000
Subject: RE: [mkars80] Building my mkars80

Dave,

It's fully cased, but I drilled the case several days prior to working on the PCB. The case probably took another hour, but getting the drilling template to size took over 2 hours.

I was lucky that after I printed out the template I checked it for size, if I hadn't and drilled the case the case would have been useless as the hols would have all been in the wrong place.

If I remember I will bring it with me next Saturday.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of David White
Sent: 03 January 2010 10:47
To: mkars80@...
Subject: RE: [mkars80] Building my mkars80

i beat you to it Phil, i told steve you did it in 12 hours flat. i think the success is due to that soldering iron nr 8 which gives out more heat. you didnt tell me yesterday if you had put it in a case yet, if so you can bring it in to BP and let us have a look at it. david G3ZPA

NNNN

To: mkars80@...
From: phil-yah@...
Date: Sat, 2 Jan 2010 21:22:27 +0000
Subject: [mkars80] Building my mkars80

Hi all,

Having spent some 12 hours over Christmas building my mkars80, when I applied power to it I was very disappointed only to find that it worked

first time.

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73s,

Phil

_____
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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1458. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 20:01:33 UTC
From: Phil
Topic: 1453 Message: 1458

I would except I would have to rig it up in 'H' block as I will be on my way to the Park at 9:30, Cliff and I are early birds and we open up 'H' block to the public at 10:30 on a Sunday.

You may be interested in this website, the videos are very interesting.

http://www.bbceng.info/

See you Saturday lunchtime when you open up :-)

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of David White
Sent: 03 January 2010 18:41
To: mkars80@yahoogroups.co.uk
Subject: RE: [mkars80] Building my mkars80

ok phil, when you get an aerial up you might try calling in to the MKARS80 net which is on sunday mornings at 0930z on 3.690 Kc/s. steve G6ALU can then give you a critical report. thanks for the LNB the insides of which i have never seen before. david G3ZPA

NNNN

To: mkars80@yahoogroups.co.uk

From: phil-yah@...

Date: Sun, 3 Jan 2010 17:42:00 +0000

Subject: RE: [mkars80] Building my mkars80

Dave,

It's fully cased, but I drilled the case several days prior to working on

the PCB. The case probably took another hour, but getting the drilling

template to size took over 2 hours.

I was lucky that after I printed out the template I checked it for size, if

I hadn't and drilled the case the case would have been useless as the hols

would have all been in the wrong place.

If I remember I will bring it with me next Saturday.

Phil

-----Original Message-----

From: mkars80@... [mailto:mkars80@...] On Behalf

Of David White

Sent: 03 January 2010 10:47

To: mkars80@...

Subject: RE: [mkars80] Building my mkars80

i beat you to it Phil, i told steve you did it in 12 hours flat. i think

the success is due to that soldering iron nr 8 which gives out more heat.

you didnt tell me yesterday if you had put it in a case yet, if so you can

bring it in to BP and let us have a look at it. david G3ZPA

NNNN

To: mkars80@...

From: phil-yah@...

Date: Sat, 2 Jan 2010 21:22:27 +0000

Subject: [mkars80] Building my mkars80

Hi all,

Having spent some 12 hours over Christmas building my mkars80, when I

applied power to it I was very disappointed only to find that it worked

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All I have to do now is to find a piece of wet string that I can run down

the length of the garden to connect it to.

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instructions, it gets my recommendations. All I've got to do is sort out a ½

wave length antenna then I will be able to make full use of it.

73s,

Phil

_____

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Individual Email | Traditional

http://uk.groups.yahoo.com/group/mkars80/join

(Yahoo! ID required)

mkars80-digest@...

mkars80-fullfeatured@...

mkars80-unsubscribe@yahoogroups.co.uk

http://uk.docs.yahoo.com/info/terms.html

[Non-text portions of this message have been removed]

1459. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 20:41:32 UTC
From: Phil
Topic: 1453 Message: 1459

Steve,

If I may offer two tips, first if you print out the drilling template, check it has been printed true to size before drilling.
The second is if possible use a Weller soldering iron with a No.8 tip when you soldering the polyurethane coated copper wire i.e. the coils and you don't need remove the coating before soldering. If that's not possible suggest you use wire wool to remove the polyurethane prior to tinning / soldering.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf Of Steve Bell
Sent: 02 January 2010 22:05
To: mkars80@...
Subject: Re: [mkars80] Building my mkars80

I started my MKARS80 over the Christmas too, but have only fitted bags 1, 2 and 3. Now I'm tied up completing last years expenses for work and printing / mounting for my photography clubs competition next week, I've run out of free time. At least I've started, I've had the kit since the last MKARS rally.

I can only echo Phil's comments, a first class kit and foolproof instructions.

Steve

On 2 Jan 2010, at 21:22, zip wrote:

> Hi all,
>
> Having spent some 12 hours over Christmas building my mkars80, when
> I applied power to it I was very disappointed only to find that it
> worked first time.
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> to do is sort out a ½ wave length antenna then I will be able to
> make full use of it.
>
> 73s,

>
> Phil
>
>
>

Yahoo! Groups Links

1460. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 20:57:32 UTC
From: David White
Topic: 1453 Message: 1460

gosh yes it is an interesting site phil, i recognise a lot of the direction finding gear as that was what i was doing at RAF gloucester in 1958. we had an RA17 and a DFG24 with the electric spinning gonio. well done for finding that de G3ZPA

NNNN

To: mkars80@...
From: phil-yah@...
Date: Sun, 3 Jan 2010 20:01:33 +0000
Subject: RE: [mkars80] Building my mkars80

I would except I would have to rig it up in 'H' block as I will be on my way to the Park at 9:30, Cliff and I are early birds and we open up 'H' block to the public at 10:30 on a Sunday.

You may be interested in this website, the videos are very interesting.

http://www.bbceng.info/

See you Saturday lunchtime when you open up :-)

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of David White
Sent: 03 January 2010 18:41
To: mkars80@...
Subject: RE: [mkars80] Building my mkars80

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NNNN

To: mkars80@...

From: phil-yah@...

Date: Sun, 3 Jan 2010 17:42:00 +0000

Subject: RE: [mkars80] Building my mkars80

Dave,

It's fully cased, but I drilled the case several days prior to working on

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would have all been in the wrong place.

If I remember I will bring it with me next Saturday.

Phil

-----Original Message-----

From: mkars80@... [mailto:mkars80@...] On Behalf

Of David White

Sent: 03 January 2010 10:47

To: mkars80@...

Subject: RE: [mkars80] Building my mkars80

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you didnt tell me yesterday if you had put it in a case yet, if so you can

bring it in to BP and let us have a look at it. david G3ZPA

NNNN

To: mkars80@...

From: phil-yah@zapper.demon.co.uk

Date: Sat, 2 Jan 2010 21:22:27 +0000

Subject: [mkars80] Building my mkars80

Hi all,

Having spent some 12 hours over Christmas building my mkars80, when I

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Phil

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Yahoo! Groups Links

http://uk.groups.yahoo.com/group/mkars80/

Individual Email | Traditional

http://uk.groups.yahoo.com/group/mkars80/join

(Yahoo! ID required)

mkars80-digest@...

mkars80-fullfeatured@...

mkars80-unsubscribe@...

http://uk.docs.yahoo.com/info/terms.html

[Non-text portions of this message have been removed]

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http://clk.atdmt.com/UKM/go/186394592/direct/01/

[Non-text portions of this message have been removed]

1461. Re: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 21:02:48 UTC
From: Steve Drury
Topic: 1453 Message: 1461

Hi Phil,

I've stated a number of times (on here) the importance of using a hot iron to remove the polyurethane coating from the enameled covered wire - I suspect there are few here with a Weller TCP iron - including me, I use a 25W Antex and find it works well. I've not tried wire wool, does it work OK on the very thin wire?

Steve G6ALU

----- Original Message -----
From: "Phil" <phil-yah@...>
To: <mkars80@...>
Sent: Sunday, January 03, 2010 8:41 PM
Subject: RE: [mkars80] Building my mkars80

Steve,

If I may offer two tips, first if you print out the drilling template, check it has been printed true to size before drilling.
The second is if possible use a Weller soldering iron with a No.8 tip when you soldering the polyurethane coated copper wire i.e. the coils and you don't need remove the coating before soldering. If that's not possible suggest you use wire wool to remove the polyurethane prior to tinning / soldering.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Bell
Sent: 02 January 2010 22:05
To: mkars80@...
Subject: Re: [mkars80] Building my mkars80

I started my MKARS80 over the Christmas too, but have only fitted bags 1, 2 and 3. Now I'm tied up completing last years expenses for work and printing / mounting for my photography clubs competition next week, I've run out of free time. At least I've started, I've had the kit since the last MKARS rally.

I can only echo Phil's comments, a first class kit and foolproof instructions.

Steve

On 2 Jan 2010, at 21:22, zip wrote:

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>
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> I applied power to it I was very disappointed only to find that it
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> Being serious, excellent kit with high quality components and
> unambiguous instructions, it gets my recommendations. All I've got
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> make full use of it.
>
> 73s,
>
> Phil
>
>
>

Yahoo! Groups Links

Yahoo! Groups Links

1462. Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 21:32:51 UTC
From: panzerbeeb
Topic: 1453 Message: 1462

Hi all,

When it comes to soldering the poly coated wire the type of iron doesn't matter that much as long as the bit has a reasonable flat area and is clean.
I place my iron on a stand with the bit facing upwards, feed a bit of solder onto it, and dip the CUT END of the copper wire into the solder, and feed in solder until the poly coating burns back allowing the copper to tin. The vital point is that applying the iron to any bare copper area allows the heat to transfer quickly, the poly coating otherwise allows the wire to float in a thermally insulating pool of flux and poly gunk.
Tin all the wire ends before fitting any coils to the board, and soldering should be easy and reliable.

Happy New Year, and happy tinning.

Mike G8EEY.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Phil,
>
> I've stated a number of times (on here) the importance of using a hot iron
> to remove the polyurethane coating from the enameled covered wire - I
> suspect there are few here with a Weller TCP iron - including me, I use a
> 25W Antex and find it works well. I've not tried wire wool, does it work OK
> on the very thin wire?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Phil" <phil-yah@...>
> To: <mkars80@...>
> Sent: Sunday, January 03, 2010 8:41 PM
> Subject: RE: [mkars80] Building my mkars80
>
>
>
> Steve,
>
> If I may offer two tips, first if you print out the drilling template, check
> it has been printed true to size before drilling.
> The second is if possible use a Weller soldering iron with a No.8 tip when
> you soldering the polyurethane coated copper wire i.e. the coils and you
> don't need remove the coating before soldering. If that's not possible
> suggest you use wire wool to remove the polyurethane prior to tinning /
> soldering.
>
> Phil

>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Steve Bell
> Sent: 02 January 2010 22:05
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
>
> I started my MKARS80 over the Christmas too, but have only fitted bags
> 1, 2 and 3. Now I'm tied up completing last years expenses for work
> and printing / mounting for my photography clubs competition next
> week, I've run out of free time. At least I've started, I've had the
> kit since the last MKARS rally.
>
> I can only echo Phil's comments, a first class kit and foolproof
> instructions.
>
> Steve
>
>
> On 2 Jan 2010, at 21:22, zip wrote:
>
> > Hi all,
> >
> > Having spent some 12 hours over Christmas building my mkars80, when
> > I applied power to it I was very disappointed only to find that it
> > worked first time.
> >
> > All I have to do now is to find a piece of wet string that I can run
> > down the length of the garden to connect it to.
> >
> > Being serious, excellent kit with high quality components and
> > unambiguous instructions, it gets my recommendations. All I've got
> > to do is sort out a ½ wave length antenna then I will be able to
> > make full use of it.
> >
> > 73s,
> >
> > Phil
> >
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> Yahoo! Groups Links
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> Yahoo! Groups Links
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1463. Re: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 21:45:12 UTC
From: Steve Bell
Topic: 1453 Message: 1463

Hi Phil,

I do use a Weller TCP iron, I've a selection of different bits
covering 700, 800 and 900 deg. F. Mikes suggestion is a little like
using a mini version of the old solder pots you never see now.

Thanks for the tip re the drilling template, I'll double check it
before making any holes.

See you at the start of the course on the 13th.

Steve

On 3 Jan 2010, at 20:41, Phil wrote:

> Steve,
>
> If I may offer two tips, first if you print out the drilling
> template, check
> it has been printed true to size before drilling.
> The second is if possible use a Weller soldering iron with a No.8
> tip when
> you soldering the polyurethane coated copper wire i.e. the coils and
> you
> don't need remove the coating before soldering. If that's not possible
> suggest you use wire wool to remove the polyurethane prior to
> tinning /
> soldering.
>
> Phil
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@....uk]
> On Behalf
> Of Steve Bell
> Sent: 02 January 2010 22:05
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
>
> I started my MKARS80 over the Christmas too, but have only fitted bags
> 1, 2 and 3. Now I'm tied up completing last years expenses for work
> and printing / mounting for my photography clubs competition next
> week, I've run out of free time. At least I've started, I've had the
> kit since the last MKARS rally.
>
> I can only echo Phil's comments, a first class kit and foolproof

> instructions.
>
> Steve
>
> On 2 Jan 2010, at 21:22, zip wrote:
>
> > Hi all,
> >
> > Having spent some 12 hours over Christmas building my mkars80, when
> > I applied power to it I was very disappointed only to find that it
> > worked first time.
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> > All I have to do now is to find a piece of wet string that I can run
> > down the length of the garden to connect it to.
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> > unambiguous instructions, it gets my recommendations. All I've got
> > to do is sort out a ½ wave length antenna then I will be able to
> > make full use of it.
> >
> > 73s,
> >
> > Phil
> >
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> Yahoo! Groups Links
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1464. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-03 22:18:33 UTC
From: Phil
Topic: 1453 Message: 1464

Steve,

In the dim and distant past I work for a company that made coils for the GPO/BT and the girls used to solder the coils using a No.9 bit. But they were like lightening when they soldered them, when I tried a No.9 the solder vaporised.

I have used wire wool in the past on thin copper before I got a No.8 tip, how thin I really can't remember, but it must have been 28SWG or thinner. If my memory is correct I grabbed the copper wire in the wire wool and then pulled the copper wire through the wool, then tined the ends before soldering the coils in place. The thinner the wire the more genital you have to be with the pressure when squeezing.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@....uk] On Behalf
Of Steve Drury
Sent: 03 January 2010 21:03
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] Building my mkars80

Hi Phil,

I've stated a number of times (on here) the importance of using a hot iron to remove the polyurethane coating from the enameled covered wire - I suspect there are few here with a Weller TCP iron - including me, I use a 25W Antex and find it works well. I've not tried wire wool, does it work OK on the very thin wire?

Steve G6ALU

----- Original Message -----
From: "Phil" <phil-yah@...>
To: <mkars80@...>
Sent: Sunday, January 03, 2010 8:41 PM
Subject: RE: [mkars80] Building my mkars80

Steve,

If I may offer two tips, first if you print out the drilling template, check it has been printed true to size before drilling.
The second is if possible use a Weller soldering iron with a No.8 tip when you soldering the polyurethane coated copper wire i.e. the coils and you don't need remove the coating before soldering. If that's not possible suggest you use wire wool to remove the polyurethane prior to tinning /

soldering.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@....uk] On Behalf
Of Steve Bell
Sent: 02 January 2010 22:05
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] Building my mkars80

I started my MKARS80 over the Christmas too, but have only fitted bags
1, 2 and 3. Now I'm tied up completing last years expenses for work
and printing / mounting for my photography clubs competition next
week, I've run out of free time. At least I've started, I've had the
kit since the last MKARS rally.

I can only echo Phil's comments, a first class kit and foolproof
instructions.

Steve

On 2 Jan 2010, at 21:22, zip wrote:

> Hi all,
>
> Having spent some 12 hours over Christmas building my mkars80, when
> I applied power to it I was very disappointed only to find that it
> worked first time.
>
> All I have to do now is to find a piece of wet string that I can run
> down the length of the garden to connect it to.
>
> Being serious, excellent kit with high quality components and
> unambiguous instructions, it gets my recommendations. All I've got
> to do is sort out a ½ wave length antenna then I will be able to
> make full use of it.
>
> 73s,
>
> Phil
>
>
>

Yahoo! Groups Links

Yahoo! Groups Links

Yahoo! Groups Links

1465. The aerial of a range of 80 metres for a campaign.

Yahoo group: mkars80
Date: 2010-01-04 18:02:26 UTC
From: Konstantin
Topic: 1465 Message: 1465

Greetings to all!
Many of us face necessity to place the aerial 80ì in the limited territory.
I have solved for a long time already this problem. I use the aerial lifted on a fishing telescopic fishing-rod long 7ì. The aerial works better than a dipole of 12 metres lifted on height.
The description in Russian: http://www.hamradio.cmw.ru/antenna/ant-hfp.htm
Translation into English: http://translate.google.com/translate?hl=en&sl=ru&tl=en&u=http%3A%2F%2Fwww.hamradio.cmw.ru%2Fantenna%2Fant-hfp.htm

---
Best regards,
Konstantin V. Enin (RN3ZF)

1466. the build continues

Yahoo group: mkars80
Date: 2010-01-10 12:35:54 UTC
From: m1evc
Topic: 1466 Message: 1466

I have just uploaded a short video to youtube of my Mkars80. I still have lots to do, including microphone wiring, cleaning up the lcd aperture etc etc...at the moment just having lots of fun listening to the band.
http://www.youtube.com/watch?v=eVwARDysqgQ

1467. Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-11 21:48:54 UTC
From: zip
Topic: 1453 Message: 1467

Steve,

I believe that you are working on 40m version / modifications, have you any timescales for when it will be available?

Phil

--- In mkars80@yahoogroups.co.uk, "Phil" <phil-yah@...> wrote:
>
> Steve,
>
> In the dim and distant past I work for a company that made coils for the
> GPO/BT and the girls used to solder the coils using a No.9 bit. But they
> were like lightening when they soldered them, when I tried a No.9 the solder
> vaporised.
>
> I have used wire wool in the past on thin copper before I got a No.8 tip,
> how thin I really can't remember, but it must have been 28SWG or thinner. If
> my memory is correct I grabbed the copper wire in the wire wool and then
> pulled the copper wire through the wool, then tined the ends before
> soldering the coils in place. The thinner the wire the more genital you have
> to be with the pressure when squeezing.
>
> Phil
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf
> Of Steve Drury
> Sent: 03 January 2010 21:03
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
>
> Hi Phil,
>
> I've stated a number of times (on here) the importance of using a hot iron
> to remove the polyurethane coating from the enameled covered wire - I
> suspect there are few here with a Weller TCP iron - including me, I use a
> 25W Antex and find it works well. I've not tried wire wool, does it work OK
> on the very thin wire?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Phil" <phil-yah@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Sunday, January 03, 2010 8:41 PM

> Subject: RE: [mkars80] Building my mkars80
>
>
> Steve,
>
> If I may offer two tips, first if you print out the drilling template, check
> it has been printed true to size before drilling.
> The second is if possible use a Weller soldering iron with a No.8 tip when
> you soldering the polyurethane coated copper wire i.e. the coils and you
> don't need remove the coating before soldering. If that's not possible
> suggest you use wire wool to remove the polyurethane prior to tinning /
> soldering.
>
> Phil
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Steve Bell
> Sent: 02 January 2010 22:05
> To: mkars80@yahoogroups.co.uk
> Subject: Re: [mkars80] Building my mkars80
>
> I started my MKARS80 over the Christmas too, but have only fitted bags
> 1, 2 and 3. Now I'm tied up completing last years expenses for work
> and printing / mounting for my photography clubs competition next
> week, I've run out of free time. At least I've started, I've had the
> kit since the last MKARS rally.
>
> I can only echo Phil's comments, a first class kit and foolproof
> instructions.
>
> Steve
>
>
> On 2 Jan 2010, at 21:22, zip wrote:
>
> > Hi all,
> >
> > Having spent some 12 hours over Christmas building my mkars80, when
> > I applied power to it I was very disappointed only to find that it
> > worked first time.
> >
> > All I have to do now is to find a piece of wet string that I can run
> > down the length of the garden to connect it to.
> >
> > Being serious, excellent kit with high quality components and
> > unambiguous instructions, it gets my recommendations. All I've got
> > to do is sort out a ½ wave length antenna then I will be able to
> > make full use of it.
> >

> > 73s,
> >
> > Phil
> >
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> Yahoo! Groups Links
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> Yahoo! Groups Links
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1468. lcd backlit display

Yahoo group: mkars80
Date: 2010-01-11 23:38:19 UTC
From: mark
Topic: 1468 Message: 1468

hi steve can you tell me what part number i would need for a display that is backlit.
i am hoping to rehouse the kit into a hammond case
from mark 2w0jmk

1469. MKARS80 on Ebay

Yahoo group: mkars80
Date: 2010-01-12 07:05:20 UTC
From: Steve Drury
Topic: 1469 Message: 1469

Anyone wanting a ready built MKARS80 one has apeared on Ebay - see item

290389782732

Steve G6ALU

[Non-text portions of this message have been removed]

1470. RE: [mkars80] MKARS80 on Ebay

Yahoo group: mkars80
Date: 2010-01-12 09:49:52 UTC
From: David White
Topic: 1469 Message: 1470

at the current bid price its probably worth it just for the power meter alone steve ! ! !
de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Tue, 12 Jan 2010 07:05:20 +0000
Subject: [mkars80] MKARS80 on Ebay

Anyone wanting a ready built MKARS80 one has apeared on Ebay - see item

290389782732

Steve G6ALU

[Non-text portions of this message have been removed]

_____
Got a cool Hotmail story? Tell us now
http://clk.atdmt.com/UKM/go/195013117/direct/01/

[Non-text portions of this message have been removed]

1471. Re: MKARS80 on Ebay

Yahoo group: mkars80
Date: 2010-01-12 10:08:15 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 1469 Message: 1471

I agree but I'll bet the final price is way higher than that, especially now it's been mentioned on the group.

Slim Haines G4IPZ

--- In mkars80@yahoogroups.co.uk, David White <davidwhite400@...> wrote:
>
>
> at the current bid price its probably worth it just for the power meter alone steve ! ! ! de G3ZPA
>
>
>
> NNNN
>
>

1472. Re: [mkars80] lcd backlit display

Yahoo group: mkars80
Date: 2010-01-12 19:56:52 UTC
From: Steve Drury
Topic: 1468 Message: 1472

Hi Mark,

I used to stock them but I'm out at the moment - see 57-0913 from rapid - www.rapid-online.com.

Regards,
Steve G6ALU

----- Original Message -----
From: "mark" <mw3hqt@...>
To: <mkars80@...>
Sent: Monday, January 11, 2010 11:38 PM
Subject: [mkars80] lcd backlit display

> hi steve can you tell me what part number i would need for a display that is backlit.
> i am hoping to rehouse the kit into a hammond case
> from mark 2w0jmk
>
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1473. Re: [mkars80] Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-12 19:59:18 UTC
From: Steve Drury
Topic: 1453 Message: 1473

Phil,

The 40M version wasn't very successful based on the MKARS80 PCB -
electrically it worked OK but had a loud pop through the speaker on TX to RX
and RX to TX transitions.

For the time being it has been shelved.

Steve G6ALU

----- Original Message -----
From: "zip" <phil-yah@...>
To: <mkars80@...>
Sent: Monday, January 11, 2010 9:48 PM
Subject: [mkars80] Re: Building my mkars80

Steve,

I believe that you are working on 40m version / modifications, have you any
timescales for when it will be available?

Phil

--- In mkars80@..., "Phil" <phil-yah@...> wrote:
>
> Steve,
>
> In the dim and distant past I work for a company that made coils for the
> GPO/BT and the girls used to solder the coils using a No.9 bit. But they
> were like lightening when they soldered them, when I tried a No.9 the
> solder
> vaporised.
>
> I have used wire wool in the past on thin copper before I got a No.8 tip,
> how thin I really can't remember, but it must have been 28SWG or thinner.
> If
> my memory is correct I grabbed the copper wire in the wire wool and then
> pulled the copper wire through the wool, then tined the ends before
> soldering the coils in place. The thinner the wire the more genital you
> have
> to be with the pressure when squeezing.
>
> Phil
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf

> Of Steve Drury
> Sent: 03 January 2010 21:03
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
>
> Hi Phil,
>
> I've stated a number of times (on here) the importance of using a hot iron
> to remove the polyurethane coating from the enameled covered wire - I
> suspect there are few here with a Weller TCP iron - including me, I use a
> 25W Antex and find it works well. I've not tried wire wool, does it work
> OK
> on the very thin wire?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Phil" <phil-yah@...>
> To: <mkars80@...>
> Sent: Sunday, January 03, 2010 8:41 PM
> Subject: RE: [mkars80] Building my mkars80
>
>
> Steve,
>
> If I may offer two tips, first if you print out the drilling template,
> check
> it has been printed true to size before drilling.
> The second is if possible use a Weller soldering iron with a No.8 tip when
> you soldering the polyurethane coated copper wire i.e. the coils and you
> don't need remove the coating before soldering. If that's not possible
> suggest you use wire wool to remove the polyurethane prior to tinning /
> soldering.
>
> Phil
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Bell
> Sent: 02 January 2010 22:05
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
>
> I started my MKARS80 over the Christmas too, but have only fitted bags
> 1, 2 and 3. Now I'm tied up completing last years expenses for work
> and printing / mounting for my photography clubs competition next
> week, I've run out of free time. At least I've started, I've had the
> kit since the last MKARS rally.
>

> I can only echo Phil's comments, a first class kit and foolproof
> instructions.
>
> Steve
>
>
> On 2 Jan 2010, at 21:22, zip wrote:
>
> > Hi all,
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> > I applied power to it I was very disappointed only to find that it
> > worked first time.
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> > All I have to do now is to find a piece of wet string that I can run
> > down the length of the garden to connect it to.
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Yahoo! Groups Links

1474. Re: lcd backlit display

Yahoo group: mkars80
Date: 2010-01-12 19:59:01 UTC
From: mark
Topic: 1468 Message: 1474

ok steve no probs and thank you for the info from mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Mark,
>
> I used to stock them but I'm out at the moment - see 57-0913 from rapid -
www.rapid-online.com.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "mark" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Monday, January 11, 2010 11:38 PM
> Subject: [mkars80] lcd backlit display
>
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> > hi steve can you tell me what part number i would need for a display that is backlit.
> > i am hoping to rehouse the kit into a hammond case
> > from mark 2w0jmk
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
>
> [Non-text portions of this message have been removed]
>

1475. RE: [mkars80] Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-12 20:17:19 UTC
From: Phil
Topic: 1453 Message: 1475

Steve,

That's a shame, but as I was looking to us it for TX only on 40m, do you have a list of the mods needed?

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 12 January 2010 19:59
To: mkars80@...
Subject: Re: [mkars80] Re: Building my mkars80

Phil,

The 40M version wasn't very successful based on the MKARS80 PCB - electrically it worked OK but had a loud pop through the speaker on TX to RX

and RX to TX transitions.

For the time being it has been shelved.

Steve G6ALU

----- Original Message -----
From: "zip" <phil-yah@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Monday, January 11, 2010 9:48 PM
Subject: [mkars80] Re: Building my mkars80

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I believe that you are working on 40m version / modifications, have you any timescales for when it will be available?

Phil

--- In mkars80@..., "Phil" <phil-yah@...> wrote:
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> Steve,
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> vaporised.
>

> I have used wire wool in the past on thin copper before I got a No.8 tip,
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> If
> my memory is correct I grabbed the copper wire in the wire wool and then
> pulled the copper wire through the wool, then tined the ends before
> soldering the coils in place. The thinner the wire the more genital you
> have
> to be with the pressure when squeezing.
>
> Phil
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 03 January 2010 21:03
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
>
> Hi Phil,
>
> I've stated a number of times (on here) the importance of using a hot iron
> to remove the polyurethane coating from the enameled covered wire - I
> suspect there are few here with a Weller TCP iron - including me, I use a
> 25W Antex and find it works well. I've not tried wire wool, does it work
> OK
> on the very thin wire?
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> Steve G6ALU
>
> ----- Original Message -----
> From: "Phil" <phil-yah@...>
> To: <mkars80@...>
> Sent: Sunday, January 03, 2010 8:41 PM
> Subject: RE: [mkars80] Building my mkars80
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>
> Steve,
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> If I may offer two tips, first if you print out the drilling template,
> check
> it has been printed true to size before drilling.
> The second is if possible use a Weller soldering iron with a No.8 tip when
> you soldering the polyurethane coated copper wire i.e. the coils and you
> don't need remove the coating before soldering. If that's not possible
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> soldering.
>
> Phil
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> -----Original Message-----
> From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On
> Behalf
> Of Steve Bell
> Sent: 02 January 2010 22:05
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
>
> I started my MKARS80 over the Christmas too, but have only fitted bags
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> Steve
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> > Hi all,
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> > Having spent some 12 hours over Christmas building my mkars80, when
> > I applied power to it I was very disappointed only to find that it
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> > All I have to do now is to find a piece of wet string that I can run
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1476. Re: [mkars80] Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-12 20:22:43 UTC
From: Steve Drury
Topic: 1453 Message: 1476

I have a marked up drawing and the modified radio - I have little time and try to prioritise things so haven't quite got to do it yet!

Steve

----- Original Message -----
From: "Phil" <phil-yah@...>
To: <mkars80@...>
Sent: Tuesday, January 12, 2010 8:17 PM
Subject: RE: [mkars80] Re: Building my mkars80

Steve,

That's a shame, but as I was looking to us it for TX only on 40m, do you have a list of the mods needed?

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 12 January 2010 19:59
To: mkars80@...
Subject: Re: [mkars80] Re: Building my mkars80

Phil,

The 40M version wasn't very successful based on the MKARS80 PCB - electrically it worked OK but had a loud pop through the speaker on TX to RX

and RX to TX transitions.

For the time being it has been shelved.

Steve G6ALU

----- Original Message -----
From: "zip" <phil-yah@...>
To: <mkars80@...>
Sent: Monday, January 11, 2010 9:48 PM
Subject: [mkars80] Re: Building my mkars80

Steve,

I believe that you are working on 40m version / modifications, have you any timescales for when it will be available?

Phil

--- In mkars80@..., "Phil" <phil-yah@...> wrote:
>
> Steve,
>
> In the dim and distant past I work for a company that made coils for the
> GPO/BT and the girls used to solder the coils using a No.9 bit. But they
> were like lightening when they soldered them, when I tried a No.9 the
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> I have used wire wool in the past on thin copper before I got a No.8 tip,
> how thin I really can't remember, but it must have been 28SWG or thinner.
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> my memory is correct I grabbed the copper wire in the wire wool and then
> pulled the copper wire through the wool, then tined the ends before
> soldering the coils in place. The thinner the wire the more genital you
> have
> to be with the pressure when squeezing.
>
> Phil
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 03 January 2010 21:03
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
>
> Hi Phil,
>
> I've stated a number of times (on here) the importance of using a hot iron
> to remove the polyurethane coating from the enameled covered wire - I
> suspect there are few here with a Weller TCP iron - including me, I use a
> 25W Antex and find it works well. I've not tried wire wool, does it work
> OK
> on the very thin wire?
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> Steve G6ALU
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> ----- Original Message -----
> From: "Phil" <phil-yah@...>
> To: <mkars80@...>
> Sent: Sunday, January 03, 2010 8:41 PM
> Subject: RE: [mkars80] Building my mkars80
>
>
>
> Steve,
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> If I may offer two tips, first if you print out the drilling template,
> check

> it has been printed true to size before drilling.
> The second is if possible use a Weller soldering iron with a No.8 tip when
> you soldering the polyurethane coated copper wire i.e. the coils and you
> don't need remove the coating before soldering. If that's not possible
> suggest you use wire wool to remove the polyurethane prior to tinning /
> soldering.
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> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On
> Behalf
> Of Steve Bell
> Sent: 02 January 2010 22:05
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
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> I started my MKARS80 over the Christmas too, but have only fitted bags
> 1, 2 and 3. Now I'm tied up completing last years expenses for work
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1477. RE: [mkars80] Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-12 20:38:37 UTC
From: Phil
Topic: 1453 Message: 1477

I understand, I have to prioritise too as work get in my way.

But getting sight of your marked up drawing would do me.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 12 January 2010 20:23
To: mkars80@....uk
Subject: Re: [mkars80] Re: Building my mkars80

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try to prioritise things so haven't quite got to do it yet!

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To: <mkars80@...>
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Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@....uk] On Behalf
Of Steve Drury
Sent: 12 January 2010 19:59
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] Re: Building my mkars80

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Steve G6ALU

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From: "zip" <phil-yah@...>
To: <mkars80@...>
Sent: Monday, January 11, 2010 9:48 PM
Subject: [mkars80] Re: Building my mkars80

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> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On
> Behalf
> Of Steve Drury
> Sent: 03 January 2010 21:03
> To: mkars80@...
> Subject: Re: [mkars80] Building my mkars80
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> Sent: 02 January 2010 22:05
> To: mkars80@...
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1478. Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-13 23:32:10 UTC
From: vk2jdp
Topic: 1453 Message: 1478

I'm keen to get something working on 40m. I was going to build my first one as 40m but decided to try one 'proper' first. In Oz, we are always battling lightning crashes on 80, and 40 works better for daytime too.

I have decided to just buy another kit, and try a few things. The 2 things I need to know are, what about 13.5MHz as a better IF? Farnell has these crystals quite cheap. Secondly, what am I going to do about the program to get it to work?

I assume that all of the timing for frequency display would change. The VFO can stay as-is. The huff 'n' puff lock points would open up a bit but no problem. The real problem is that I have no programmer or experience in these things unfortunately.

That's what you get for being a boat-anchorist Hi Hi ;-)

Maybe I could ask Steve on a bended knee to modify a program for me - obviously at a more suitable time? It will take a little time to build the unit and get the hardware ready anyway ;-)

Regards,

Jon

--- In mkars80@..., "Phil" <phil-yah@...> wrote:
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> I understand, I have to prioritise too as work get in my way.
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> But getting sight of your marked up drawing would do me.
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> Phil
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> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Steve Drury
> Sent: 12 January 2010 20:23
> To: mkars80@yahoogroups.co.uk
> Subject: Re: [mkars80] Re: Building my mkars80
>
> I have a marked up drawing and the modified radio - I have little time and
> try to prioritise things so haven't quite got to do it yet!
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> Steve
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> From: "Phil" <phil-yah@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Tuesday, January 12, 2010 8:17 PM
> Subject: RE: [mkars80] Re: Building my mkars80

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> Steve,
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> Phil
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> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
> Of Steve Drury
> Sent: 12 January 2010 19:59
> To: mkars80@...
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> For the time being it has been shelved.
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> To: <mkars80@yahoogroups.co.uk>
> Sent: Monday, January 11, 2010 9:48 PM
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> Steve,
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> > From: mkars80@... [mailto:mkars80@...] On
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> > Of Steve Drury
> > Sent: 03 January 2010 21:03
> > To: mkars80@...
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> > From: "Phil" <phil-yah@>
> > To: <mkars80@...>
> > Sent: Sunday, January 03, 2010 8:41 PM
> > Subject: RE: [mkars80] Building my mkars80
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> > From: mkars80@... [mailto:mkars80@...] On
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> > Of Steve Bell
> > Sent: 02 January 2010 22:05
> > To: mkars80@...
> > Subject: Re: [mkars80] Building my mkars80
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1479. Re: [mkars80] Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-14 06:53:33 UTC
From: Steve Drury
Topic: 1453 Message: 1479

I already have an ammended program so no problem there - the one I have is for 12MHz crystals.

Steve G6ALU

----- Original Message -----
From: "vk2jdp" <jonpoint@...>
To: <mkars80@...>
Sent: Wednesday, January 13, 2010 11:32 PM
Subject: [mkars80] Re: Building my mkars80

I'm keen to get something working on 40m. I was going to build my first one as 40m but decided to try one 'proper' first. In Oz, we are always battling lightning crashes on 80, and 40 works better for daytime too.

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> Subject: Re: [mkars80] Re: Building my mkars80
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> > > to do is sort out a ? wave length antenna then I will be able to
> > > make full use of it.
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> > > 73s,
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> > > Phil
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Yahoo! Groups Links

1480. Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-15 06:03:49 UTC
From: vk2jdp
Topic: 1453 Message: 1480

Steve,

OK then, is is possible to order the kit with the xtals and program, or at least the program? It would be nice to get at least the same brand/style of xtals so I don't have to re-align the filter. I would be happy to try and 'stop the pop' with the speaker ;-)

Might just tack a J174 FET across the LM386 input and drive it from the TX+, with an RC network for a start?

I have been holding off ordering one until now. If the program will work and I can get it, I'm sold ;-) If you want to just do a standard kit but with the IC and xtals as extras, I'll do that instead. Saves ripping a kit apart. Please let me know.

Regards,
Jon

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I already have an ammended program so no problem there - the one I have is
> for 12MHz crystals.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "vk2jdp" <jonpoint@...>
> To: <mkars80@...>
> Sent: Wednesday, January 13, 2010 11:32 PM
> Subject: [mkars80] Re: Building my mkars80
>
>
> I'm keen to get something working on 40m. I was going to build my first one
> as 40m but decided to try one 'proper' first. In Oz, we are always battling
> lightning crashes on 80, and 40 works better for daytime too.
>
> I have decided to just buy another kit, and try a few things. The 2 things I
> need to know are, what about 13.5MHz as a better IF? Farnell has these
> crystals quite cheap. Secondly, what am I going to do about the program to
> get it to work?
>
> I assume that all of the timing for frequency display would change. The VFO
> can stay as-is. The huff 'n' puff lock points would open up a bit but no
> problem. The real problem is that I have no programmer or experience in
> these things unfortunately.
>
> That's what you get for being a boat-anchorist Hi Hi ;-)
>

> Maybe I could ask Steve on a bended knee to modify a program for me -
> obviously at a more suitable time? It will take a little time to build the
> unit and get the hardware ready anyway ;-)
>
> Regards,
>
> Jon
>
> --- In mkars80@..., "Phil" <phil-yah@> wrote:
> >
> > I understand, I have to prioritise too as work get in my way.
> >
> > But getting sight of your marked up drawing would do me.
> >
> > Phil
> >
> > -----Original Message-----
> > From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On
> > Behalf
> > Of Steve Drury
> > Sent: 12 January 2010 20:23
> > To: mkars80@...
> > Subject: Re: [mkars80] Re: Building my mkars80
> >
> > I have a marked up drawing and the modified radio - I have little time and
> > try to prioritise things so haven't quite got to do it yet!
> >
> > Steve
> >
> > ----- Original Message -----
> > From: "Phil" <phil-yah@>
> > To: <mkars80@yahoogroups.co.uk>
> > Sent: Tuesday, January 12, 2010 8:17 PM
> > Subject: RE: [mkars80] Re: Building my mkars80
> >
> >
> > Steve,
> >
> > That's a shame, but as I was looking to us it for TX only on 40m, do you
> > have a list of the mods needed?
> >
> > Phil
> >
> > -----Original Message-----
> > From: mkars80@... [mailto:mkars80@...] On
> > Behalf
> > Of Steve Drury
> > Sent: 12 January 2010 19:59
> > To: mkars80@yahoogroups.co.uk
> > Subject: Re: [mkars80] Re: Building my mkars80

> >
> > Phil,
> >
> > The 40M version wasn't very successful based on the MKARS80 PCB -
> > electrically it worked OK but had a loud pop through the speaker on TX to
> > RX
> >
> > and RX to TX transitions.
> >
> > For the time being it has been shelved.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "zip" <phil-yah@>
> > To: <mkars80@...>
> > Sent: Monday, January 11, 2010 9:48 PM
> > Subject: [mkars80] Re: Building my mkars80
> >
> >
> > Steve,
> >
> > I believe that you are working on 40m version / modifications, have you
> > any
> > timescales for when it will be available?
> >
> > Phil
> >
> >
> > --- In mkars80@..., "Phil" <phil-yah@> wrote:
> > >
> > > Steve,
> > >
> > > In the dim and distant past I work for a company that made coils for the
> > > GPO/BT and the girls used to solder the coils using a No.9 bit. But they
> > > were like lightening when they soldered them, when I tried a No.9 the
> > > solder
> > > vaporised.
> > >
> > > I have used wire wool in the past on thin copper before I got a No.8
> > > tip,
> > > how thin I really can't remember, but it must have been 28SWG or
> > > thinner.
> > > If
> > > my memory is correct I grabbed the copper wire in the wire wool and then
> > > pulled the copper wire through the wool, then tined the ends before
> > > soldering the coils in place. The thinner the wire the more genital you
> > > have
> > > to be with the pressure when squeezing.
> > >

> > > Phil
> > >
> > > -----Original Message-----
> > > From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On
> > > Behalf
> > > Of Steve Drury
> > > Sent: 03 January 2010 21:03
> > > To: mkars80@...
> > > Subject: Re: [mkars80] Building my mkars80
> > >
> > > Hi Phil,
> > >
> > > I've stated a number of times (on here) the importance of using a hot
> > > iron
> > > to remove the polyurethane coating from the enameled covered wire - I
> > > suspect there are few here with a Weller TCP iron - including me, I use
> > > a
> > > 25W Antex and find it works well. I've not tried wire wool, does it work
> > > OK
> > > on the very thin wire?
> > >
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "Phil" <phil-yah@>
> > > To: <mkars80@...>
> > > Sent: Sunday, January 03, 2010 8:41 PM
> > > Subject: RE: [mkars80] Building my mkars80
> > >
> > >
> > > Steve,
> > >
> > > If I may offer two tips, first if you print out the drilling template,
> > > check
> > > it has been printed true to size before drilling.
> > > The second is if possible use a Weller soldering iron with a No.8 tip
> > > when
> > > you soldering the polyurethane coated copper wire i.e. the coils and you
> > > don't need remove the coating before soldering. If that's not possible
> > > suggest you use wire wool to remove the polyurethane prior to tinning /
> > > soldering.
> > >
> > > Phil
> > >
> > > -----Original Message-----
> > > From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On
> > > Behalf
> > > Of Steve Bell
> > > Sent: 02 January 2010 22:05
> > > To: mkars80@...

> > > Subject: Re: [mkars80] Building my mkars80
> > >
> > > I started my MKARS80 over the Christmas too, but have only fitted bags
> > > 1, 2 and 3. Now I'm tied up completing last years expenses for work
> > > and printing / mounting for my photography clubs competition next
> > > week, I've run out of free time. At least I've started, I've had the
> > > kit since the last MKARS rally.
> > >
> > > I can only echo Phil's comments, a first class kit and foolproof
> > > instructions.
> > >
> > > Steve
> > >
> > >
> > > On 2 Jan 2010, at 21:22, zip wrote:
> > >
> > > > Hi all,
> > > >
> > > > Having spent some 12 hours over Christmas building my mkars80, when
> > > > I applied power to it I was very disappointed only to find that it
> > > > worked first time.
> > > >
> > > > All I have to do now is to find a piece of wet string that I can run
> > > > down the length of the garden to connect it to.
> > > >
> > > > Being serious, excellent kit with high quality components and
> > > > unambiguous instructions, it gets my recommendations. All I've got
> > > > to do is sort out a ½ wave length antenna then I will be able to
> > > > make full use of it.
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1481. Re: [mkars80] MKARS80 on Ebay

Yahoo group: mkars80
Date: 2010-01-17 22:18:39 UTC
From: Steve Drury
Topic: 1469 Message: 1481

I'm pleased to see the built MKARS80 and power meter sold for nearly ?70.

There can't be many kits that appreciate in value once built!

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Tuesday, January 12, 2010 7:05 AM
Subject: [mkars80] MKARS80 on Ebay

> Anyone wanting a ready built MKARS80 one has apeared on Ebay - see item
>
> 290389782732
>
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1482. Re: [mkars80] Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-17 22:22:16 UTC
From: Steve Drury
Topic: 1453 Message: 1482

Its likely the pop could be solved with a fet in place of the mute transistor and with the addition of a "bleed" resistor to get rid of any DC component - I will investigate and get back to you in a few days. If successful I will be looking for a Guinea pig!

Steve G6ALU

----- Original Message -----
From: "vk2jdp" <jonpoint@...>
To: <mkars80@...>
Sent: Friday, January 15, 2010 6:03 AM
Subject: [mkars80] Re: Building my mkars80

Steve,

OK then, is is possible to order the kit with the xtals and program, or at least the program? It would be nice to get at least the same brand/style of xtals so I don't have to re-align the filter. I would be happy to try and 'stop the pop' with the speaker ;-)

Might just tack a J174 FET across the LM386 input and drive it from the TX+, with an RC network for a start?

I have been holding off ordering one until now. If the program will work and I can get it, I'm sold ;-) If you want to just do a standard kit but with the IC and xtals as extras, I'll do that instead. Saves ripping a kit apart. Please let me know.

Regards,
Jon

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>
> I already have an ammended program so no problem there - the one I have is
> for 12MHz crystals.
>
> Steve G6ALU
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> ----- Original Message -----
> From: "vk2jdp" <jonpoint@...>
> To: <mkars80@...>
> Sent: Wednesday, January 13, 2010 11:32 PM
> Subject: [mkars80] Re: Building my mkars80
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>
> I'm keen to get something working on 40m. I was going to build my first
> one

> as 40m but decided to try one 'proper' first. In Oz, we are always
> battling
> lightning crashes on 80, and 40 works better for daytime too.
>
> I have decided to just buy another kit, and try a few things. The 2 things
> I
> need to know are, what about 13.5MHz as a better IF? Farnell has these
> crystals quite cheap. Secondly, what am I going to do about the program to
> get it to work?
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> I assume that all of the timing for frequency display would change. The
> VFO
> can stay as-is. The huff 'n' puff lock points would open up a bit but no
> problem. The real problem is that I have no programmer or experience in
> these things unfortunately.
>
> That's what you get for being a boat-anchorist Hi Hi ;-)
>
> Maybe I could ask Steve on a bended knee to modify a program for me -
> obviously at a more suitable time? It will take a little time to build the
> unit and get the hardware ready anyway ;-)
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> Jon
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> --- In mkars80@..., "Phil" <phil-yah@> wrote:
> >
> > I understand, I have to prioritise too as work get in my way.
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> > But getting sight of your marked up drawing would do me.
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> > Phil
> >
> > -----Original Message-----
> > From: mkars80@... [mailto:mkars80@...] On
> > Behalf
> > Of Steve Drury
> > Sent: 12 January 2010 20:23
> > To: mkars80@...
> > Subject: Re: [mkars80] Re: Building my mkars80
> >
> > I have a marked up drawing and the modified radio - I have little time
> > and
> > try to prioritise things so haven't quite got to do it yet!
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> > Steve
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> > ----- Original Message -----
> > From: "Phil" <phil-yah@>

> > To: <mkars80@...>
> > Sent: Tuesday, January 12, 2010 8:17 PM
> > Subject: RE: [mkars80] Re: Building my mkars80
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> > Steve,
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> > That's a shame, but as I was looking to us it for TX only on 40m, do you
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> > From: mkars80@... [mailto:mkars80@...] On
> > Behalf
> > Of Steve Drury
> > Sent: 12 January 2010 19:59
> > To: mkars80@...
> > Subject: Re: [mkars80] Re: Building my mkars80
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> > and RX to TX transitions.
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> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "zip" <phil-yah@>
> > To: <mkars80@...>
> > Sent: Monday, January 11, 2010 9:48 PM
> > Subject: [mkars80] Re: Building my mkars80
> >
> >
> > Steve,
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> > I believe that you are working on 40m version / modifications, have you
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> > > In the dim and distant past I work for a company that made coils for
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> > > were like lightening when they soldered them, when I tried a No.9 the
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> > > pulled the copper wire through the wool, then tined the ends before
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> > > you
> > > have
> > > to be with the pressure when squeezing.
> > >
> > > Phil
> > >
> > > -----Original Message-----
> > > From: mkars80@... [mailto:mkars80@...] On
> > > Behalf
> > > Of Steve Drury
> > > Sent: 03 January 2010 21:03
> > > To: mkars80@...
> > > Subject: Re: [mkars80] Building my mkars80
> > >
> > > Hi Phil,
> > >
> > > I've stated a number of times (on here) the importance of using a hot
> > > iron
> > > to remove the polyurethane coating from the enameled covered wire - I
> > > suspect there are few here with a Weller TCP iron - including me, I
> > > use
> > > a
> > > 25W Antex and find it works well. I've not tried wire wool, does it
> > > work
> > > OK
> > > on the very thin wire?
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> > > Steve G6ALU
> > >
> > > ----- Original Message -----

> > > From: "Phil" <phil-yah@>
> > > To: <mkars80@...>
> > > Sent: Sunday, January 03, 2010 8:41 PM
> > > Subject: RE: [mkars80] Building my mkars80
> > >
> > >
> > > Steve,
> > >
> > > If I may offer two tips, first if you print out the drilling template,
> > > check
> > > it has been printed true to size before drilling.
> > > The second is if possible use a Weller soldering iron with a No.8 tip
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> > > you soldering the polyurethane coated copper wire i.e. the coils and
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> > > don't need remove the coating before soldering. If that's not possible
> > > suggest you use wire wool to remove the polyurethane prior to tinning
> > > /
> > > soldering.
> > >
> > > Phil
> > >
> > > -----Original Message-----
> > > From: mkars80@... [mailto:mkars80@...] On
> > > Behalf
> > > Of Steve Bell
> > > Sent: 02 January 2010 22:05
> > > To: mkars80@...
> > > Subject: Re: [mkars80] Building my mkars80
> > >
> > > I started my MKARS80 over the Christmas too, but have only fitted bags
> > > 1, 2 and 3. Now I'm tied up completing last years expenses for work
> > > and printing / mounting for my photography clubs competition next
> > > week, I've run out of free time. At least I've started, I've had the
> > > kit since the last MKARS rally.
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> > > instructions.
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> > >
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> > > > Having spent some 12 hours over Christmas building my mkars80, when
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> > > > worked first time.
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> > > > All I have to do now is to find a piece of wet string that I can run
> > > > down the length of the garden to connect it to.
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> > > > Being serious, excellent kit with high quality components and
> > > > unambiguous instructions, it gets my recommendations. All I've got
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> > > > make full use of it.
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Yahoo! Groups Links

1483. RE: [mkars80] MKARS80 on Ebay

Yahoo group: mkars80
Date: 2010-01-17 22:40:05 UTC
From: rob styles
Topic: 1469 Message: 1483

Started mine today,bag 1 almost complete.

Rob M0TFO

To: mkars80@yahoogroups.co.uk
From: g6alu@...
Date: Sun, 17 Jan 2010 22:18:39 +0000
Subject: Re: [mkars80] MKARS80 on Ebay

I'm pleased to see the built MKARS80 and power meter sold for nearly ?70.

There can't be many kits that appreciate in value once built!

Steve G6ALU

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Tuesday, January 12, 2010 7:05 AM
Subject: [mkars80] MKARS80 on Ebay

> Anyone wanting a ready built MKARS80 one has apeared on Ebay - see item
>
> 290389782732
>
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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Do you have a story that started on Hotmail? Tell us now
http://clk.atdmt.com/UKM/go/195013117/direct/01/

[Non-text portions of this message have been removed]

1484. VFO looses lock after releasing ptt

Yahoo group: mkars80
Date: 2010-01-17 23:04:28 UTC
From: isutty
Topic: 1484 Message: 1484

HI Team,
I have had my MKARS80 going for a couple of months. Its GREAT!
BUT it has developed an annoying fault though..
When I release the PTT it looses lock. I get the U for the 3 seconds while it settles down. This happens even after 2 hours warm up. It was fine when I first built it. I have re checked the TX bias. Any thoughts would be appreciated please.
best 73 Ian VK5IS

1485. Re: VFO looses lock after releasing ptt

Yahoo group: mkars80
Date: 2010-01-18 22:08:12 UTC
From: g8uug
Topic: 1484 Message: 1485

--- In mkars80@..., "isutty" <isutty@...> wrote:
>
> HI Team,
> I have had my MKARS80 going for a couple of months. Its GREAT!
> BUT it has developed an annoying fault though..
> When I release the PTT it looses lock. I get the U for the 3 seconds while it settles down. This happens even after 2 hours warm up. It was fine when I first built it. I have re checked the TX bias. Any thoughts would be appreciated please.
> best 73 Ian VK5IS
>

Hi Ian, I am new to this group, This type of fault is always tricky, the VFO is not switched between TX and RX, however the VFO is getting disturbed, by what you say. You are going to have to check for poor soldered joints, try warming up the board, and see if you can locate a sensitive area. Have you tried to re-align maybe the VCO is just on the edge of its control range. I am not sure the TX bias would stop the lock, as the VCO would not even know if the PA strip was missing!! Measure the voltage on the centre of the fine tune pot, and scope it, see if it jumps between TX/RX let me know your out come. Do you have access to RF test equipment?

73

Andrew

1486. Re: [mkars80] Re: VFO looses lock after releasing ptt

Yahoo group: mkars80
Date: 2010-01-18 22:14:28 UTC
From: Steve Drury
Topic: 1484 Message: 1486

Check also the output of the 8V regulator witha meter, make sure it doesn't jump between TX and RX - just a thought, your power supply is > 10V and its not jumping when you release the PTT is it?

The VFO buffer is effective and I've not had this problem on a production kit - I did have it on the prototype before I supplied the VFO and buffer from the 8V regulator.

If all else fails you know where to send it!

Steve G6ALU

----- Original Message -----
From: "g8uug" <a@...>
To: <mkars80@...>
Sent: Monday, January 18, 2010 10:08 PM
Subject: [mkars80] Re: VFO looses lock after releasing ptt

>
>
> --- In mkars80@..., "isutty" <isutty@...> wrote:
>>
>> HI Team,
>> I have had my MKARS80 going for a couple of months. Its GREAT!
>> BUT it has developed an annoying fault though..
>> When I release the PTT it looses lock. I get the U for the 3 seconds
>> while it settles down. This happens even after 2 hours warm up. It was
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>> would be appreciated please.
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>
> Hi Ian, I am new to this group, This type of fault is always tricky, the
> VFO is not switched between TX and RX, however the VFO is getting
> disturbed, by what you say. You are going to have to check for poor
> soldered joints, try warming up the board, and see if you can locate a
> sensitive area. Have you tried to re-align maybe the VCO is just on the
> edge of its control range. I am not sure the TX bias would stop the lock,
> as the VCO would not even know if the PA strip was missing!! Measure the
> voltage on the centre of the fine tune pot, and scope it, see if it jumps
> between TX/RX let me know your out come. Do you have access to RF test
> equipment?
>
> 73
>
> Andrew

>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

1487. simple build-in cw adaptor

Yahoo group: mkars80
Date: 2010-01-19 08:43:54 UTC
From: martienrijssemus
Topic: 1487 Message: 1487

Hello,

Although the available cw adadtor is a very good choice I wanted something simple build into the original housing for portable use.
For those of you who are interested I added a file in the files section (simple cw adaptor.pdf).

73's

Martien PA4H

1488. Re: VFO looses lock after releasing ptt

Yahoo group: mkars80
Date: 2010-01-19 09:27:44 UTC
From: martienrijssemus
Topic: 1484 Message: 1488

Just a thougth: maybe D6 is defective or has a bad solder joint. If D6 is defective the coil of the relais will give a spike on the powersupply voltage when the PTT switch is released.

73's

Martien PA4H

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Check also the output of the 8V regulator witha meter, make sure it doesn't
> jump between TX and RX - just a thought, your power supply is > 10V and its
> not jumping when you release the PTT is it?
>
> The VFO buffer is effective and I've not had this problem on a production
> kit - I did have it on the prototype before I supplied the VFO and buffer
> from the 8V regulator.
>
> If all else fails you know where to send it!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g8uug" <a@...>
> To: <mkars80@....uk>
> Sent: Monday, January 18, 2010 10:08 PM
> Subject: [mkars80] Re: VFO looses lock after releasing ptt
>
>
> >
> > >
> > > --- In mkars80@yahoogroups.co.uk, "isutty" <isutty@> wrote:
> > >>
> > >> HI Team,
> > >> I have had my MKARS80 going for a couple of months. Its GREAT!
> > >> BUT it has developed an annoying fault though..
> > >> When I release the PTT it looses lock. I get the U for the 3 seconds
> > >> while it settles down. This happens even after 2 hours warm up. It was
> > >> fine when I first built it. I have re checked the TX bias. Any thoughts
> > >> would be appreciated please.
> > >> best 73 Ian VK5IS
> > >>
> > >
> > > Hi Ian, I am new to this group, This type of fault is always tricky, the
> > > VFO is not switched between TX and RX, however the VFO is getting
> > > disturbed, by what you say. You are going to have to check for poor

> > soldered joints, try warming up the board, and see if you can locate a
> > sensitive area. Have you tried to re-align maybe the VCO is just on the
> > edge of its control range. I am not sure the TX bias would stop the lock,
> > as the VCO would not even know if the PA strip was missing!! Measure the
> > voltage on the centre of the fine tune pot, and scope it, see if it jumps
> > between TX/RX let me know your out come. Do you have access to RF test
> > equipment?
> >
> > 73
> >
> > Andrew
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

1489. Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-01-19 10:30:32 UTC
From: vk2jdp
Topic: 1453 Message: 1489

Steve,

If you have some luck (or not), I'll be a guinea pig (can't be any worse than a teenager's cooking...)!

I suggest the J174 for a start, but if the 'on' resistance is too high, maybe you can suggest a better alternative.

Either way, let me know and I'll go ahead and order a kit.

Regards,
Jon

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Its likely the pop could be solved with a fet in place of the mute
> transistor and with the addition of a "bleed" resistor to get rid of any DC
> component - I will investigate and get back to you in a few days. If
> successful I will be looking for a Guinea pig!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "vk2jdp" <jonpoint@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Friday, January 15, 2010 6:03 AM
> Subject: [mkars80] Re: Building my mkars80
>
>
> Steve,
>
> OK then, is is possible to order the kit with the xtals and program, or at
> least the program? It would be nice to get at least the same brand/style of
> xtals so I don't have to re-align the filter. I would be happy to try and
> 'stop the pop' with the speaker ;-)
>
> Might just tack a J174 FET across the LM386 input and drive it from the TX+,
> with an RC network for a start?
>
> I have been holding off ordering one until now. If the program will work and
> I can get it, I'm sold ;-) If you want to just do a standard kit but with
> the IC and xtals as extras, I'll do that instead. Saves ripping a kit apart.
> Please let me know.
>
> Regards,
> Jon

>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > I already have an ammended program so no problem there - the one I have is
> > for 12MHz crystals.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "vk2jdp" <jonpoint@>
> > To: <mkars80@...>
> > Sent: Wednesday, January 13, 2010 11:32 PM
> > Subject: [mkars80] Re: Building my mkars80
> >
> >
> > I'm keen to get something working on 40m. I was going to build my first
> > one
> > as 40m but decided to try one 'proper' first. In Oz, we are always
> > battling
> > lightning crashes on 80, and 40 works better for daytime too.
> >
> > I have decided to just buy another kit, and try a few things. The 2 things
> > I
> > need to know are, what about 13.5MHz as a better IF? Farnell has these
> > crystals quite cheap. Secondly, what am I going to do about the program to
> > get it to work?
> >
> > I assume that all of the timing for frequency display would change. The
> > VFO
> > can stay as-is. The huff 'n' puff lock points would open up a bit but no
> > problem. The real problem is that I have no programmer or experience in
> > these things unfortunately.
> >
> > That's what you get for being a boat-anchorist Hi Hi ;-)
> >
> > Maybe I could ask Steve on a bended knee to modify a program for me -
> > obviously at a more suitable time? It will take a little time to build the
> > unit and get the hardware ready anyway ;-)
> >
> > Regards,
> >
> > Jon
> >
> > --- In mkars80@..., "Phil" <phil-yah@> wrote:
> > >
> > > I understand, I have to prioritise too as work get in my way.
> > >
> > > But getting sight of your marked up drawing would do me.
> > >
> > > Phil

> > >
> > > -----Original Message-----
> > > From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On
> > > Behalf
> > > Of Steve Drury
> > > Sent: 12 January 2010 20:23
> > > To: mkars80@yahoogroups.co.uk
> > > Subject: Re: [mkars80] Re: Building my mkars80
> > >
> > > I have a marked up drawing and the modified radio - I have little time
> > > and
> > > try to prioritise things so haven't quite got to do it yet!
> > >
> > > Steve
> > >
> > > ----- Original Message -----
> > > From: "Phil" <phil-yah@>
> > > To: <mkars80@...>
> > > Sent: Tuesday, January 12, 2010 8:17 PM
> > > Subject: RE: [mkars80] Re: Building my mkars80
> > >
> > >
> > > Steve,
> > >
> > > That's a shame, but as I was looking to us it for TX only on 40m, do you
> > > have a list of the mods needed?
> > >
> > > Phil
> > >
> > > -----Original Message-----
> > > From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On
> > > Behalf
> > > Of Steve Drury
> > > Sent: 12 January 2010 19:59
> > > To: mkars80@yahoogroups.co.uk
> > > Subject: Re: [mkars80] Re: Building my mkars80
> > >
> > > Phil,
> > >
> > > The 40M version wasn't very successful based on the MKARS80 PCB -
> > > electrically it worked OK but had a loud pop through the speaker on TX
> > > to
> > > RX
> > >
> > > and RX to TX transitions.
> > >
> > > For the time being it has been shelved.
> > >
> > > Steve G6ALU
> > >

> > > ----- Original Message -----
> > > From: "zip" <phil-yah@>
> > > To: <mkars80@...>
> > > Sent: Monday, January 11, 2010 9:48 PM
> > > Subject: [mkars80] Re: Building my mkars80
> > >
> > >
> > > Steve,
> > >
> > > I believe that you are working on 40m version / modifications, have you
> > > any
> > > timescales for when it will be available?
> > >
> > > Phil
> > >
> > >
> > > --- In mkars80@..., "Phil" <phil-yah@> wrote:
> > > >
> > > > Steve,
> > > >
> > > > In the dim and distant past I work for a company that made coils for
> > > > the
> > > > GPO/BT and the girls used to solder the coils using a No.9 bit. But
> > > > they
> > > > were like lightening when they soldered them, when I tried a No.9 the
> > > > solder
> > > > vaporised.
> > > >
> > > > I have used wire wool in the past on thin copper before I got a No.8
> > > > tip,
> > > > how thin I really can't remember, but it must have been 28SWG or
> > > > thinner.
> > > > If
> > > > my memory is correct I grabbed the copper wire in the wire wool and
> > > > then
> > > > pulled the copper wire through the wool, then tined the ends before
> > > > soldering the coils in place. The thinner the wire the more genital
> > > > you
> > > > have
> > > > to be with the pressure when squeezing.
> > > >
> > > > Phil
> > > >
> > > > -----Original Message-----
> > > > From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On
> > > > Behalf
> > > > Of Steve Drury
> > > > Sent: 03 January 2010 21:03
> > > > To: mkars80@...
> > > > Subject: Re: [mkars80] Building my mkars80

> > > >
> > > > Hi Phil,
> > > >
> > > > I've stated a number of times (on here) the importance of using a hot
> > > > iron
> > > > to remove the polyurethane coating from the enameled covered wire - I
> > > > suspect there are few here with a Weller TCP iron - including me, I
> > > > use
> > > > a
> > > > 25W Antex and find it works well. I've not tried wire wool, does it
> > > > work
> > > > OK
> > > > on the very thin wire?
> > > >
> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----
> > > > From: "Phil" <phil-yah@>
> > > > To: <mkars80@yahoogroups.co.uk>
> > > > Sent: Sunday, January 03, 2010 8:41 PM
> > > > Subject: RE: [mkars80] Building my mkars80
> > > >
> > > >
> > > > Steve,
> > > >
> > > > If I may offer two tips, first if you print out the drilling template,
> > > > check
> > > > it has been printed true to size before drilling.
> > > > The second is if possible use a Weller soldering iron with a No.8 tip
> > > > when
> > > > you soldering the polyurethane coated copper wire i.e. the coils and
> > > > you
> > > > don't need remove the coating before soldering. If that's not possible
> > > > suggest you use wire wool to remove the polyurethane prior to tinning
> > > > /
> > > > soldering.
> > > >
> > > > Phil
> > > >
> > > > -----Original Message-----
> > > > From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On
> > > > Behalf
> > > > Of Steve Bell
> > > > Sent: 02 January 2010 22:05
> > > > To: mkars80@yahoogroups.co.uk
> > > > Subject: Re: [mkars80] Building my mkars80
> > > >
> > > > I started my MKARS80 over the Christmas too, but have only fitted bags
> > > > 1, 2 and 3. Now I'm tied up completing last years expenses for work
> > > > and printing / mounting for my photography clubs competition next

> > > > week, I've run out of free time. At least I've started, I've had the
> > > > kit since the last MKARS rally.
> > > >
> > > > I can only echo Phil's comments, a first class kit and foolproof
> > > > instructions.
> > > >
> > > > Steve
> > > >
> > > >
> > > > On 2 Jan 2010, at 21:22, zip wrote:
> > > >
> > > > > Hi all,
> > > > >
> > > > > Having spent some 12 hours over Christmas building my mkars80, when
> > > > > I applied power to it I was very disappointed only to find that it
> > > > > worked first time.
> > > > >
> > > > > All I have to do now is to find a piece of wet string that I can run
> > > > > down the length of the garden to connect it to.
> > > > >
> > > > > Being serious, excellent kit with high quality components and
> > > > > unambiguous instructions, it gets my recommendations. All I've got
> > > > > to do is sort out a ½ wave length antenna then I will be able to
> > > > > make full use of it.
> > > > >
> > > > > 73s,
> > > > >
> > > > > Phil
> > > > >
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> > > > Yahoo! Groups Links
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> Yahoo! Groups Links
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1490. Re: VFO looses lock after releasing ptt

Yahoo group: mkars80
Date: 2010-01-19 20:38:05 UTC
From: isutty
Topic: 1484 Message: 1490

Steve,
I have fixed my problem with the VFO lock. The regulator was OK. I re-touched all the solder points around the vfo.... didn't fix it. I then re-tuned the balanced mixer. YEAH! problem solved. Now as solid as a rock.
Thanks to all who offered advice.
Best 73 Ian
VK5IS

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Check also the output of the 8V regulator witha meter, make sure it doesn't
> jump between TX and RX - just a thought, your power supply is > 10V and its
> not jumping when you release the PTT is it?
>
> The VFO buffer is effective and I've not had this problem on a production
> kit - I did have it on the prototype before I supplied the VFO and buffer
> from the 8V regulator.
>
> If all else fails you know where to send it!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "g8uug" <a@...>
> To: <mkars80@...>
> Sent: Monday, January 18, 2010 10:08 PM
> Subject: [mkars80] Re: VFO looses lock after releasing ptt
>
>
> >
> > >
> > > --- In mkars80@....uk, "isutty" <isutty@> wrote:
> > >>
> > >> HI Team,
> > >> I have had my MKARS80 going for a couple of months. Its GREAT!
> > >> BUT it has developed an annoying fault though..
> > >> When I release the PTT it looses lock. I get the U for the 3 seconds
> > >> while it settles down. This happens even after 2 hours warm up. It was
> > >> fine when I first built it. I have re checked the TX bias. Any thoughts
> > >> would be appreciated please.
> > >> best 73 Ian VK5IS
> > >>
> > >
> > > Hi Ian, I am new to this group, This type of fault is always tricky, the
> > > VFO is not switched between TX and RX, however the VFO is getting

> > disturbed, by what you say. You are going to have to check for poor
> > soldered joints, try warming up the board, and see if you can locate a
> > sensitive area. Have you tried to re-align maybe the VCO is just on the
> > edge of its control range. I am not sure the TX bias would stop the lock,
> > as the VCO would not even know if the PA strip was missing!! Measure the
> > voltage on the centre of the fine tune pot, and scope it, see if it jumps
> > between TX/RX let me know your out come. Do you have access to RF test
> > equipment?
> >
> > 73
> >
> > Andrew
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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1491. Building my mkars80

Yahoo group: mkars80
Date: 2010-01-19 21:46:24 UTC
From: zip
Topic: 1453 Message: 1491

Hi Steve,

Over the last couple of days I've been using my 80 in digi mode and while I was play this afternoon I have a receiver alongside and I noticed that while I was transmitting the audio from the receiver was drifting, not by much, but I could hear it. To cut the story short I can confirm that this drift was due to temperature build-up inside the case. So I think my first mod will probably be the fitting of a miniature 12v fan inside the case and make some vents for the air flow.

Phil

1492. Re: [mkars80] Re: VFO looses lock after releasing ptt

Yahoo group: mkars80
Date: 2010-01-19 22:42:44 UTC
From: Steve Drury
Topic: 1484 Message: 1492

Ian,

I'm glad you fixed it, I guess lack of balance here could cause the problem.
I will have to unbalance mine and try it!

Steve G6ALU

----- Original Message -----
From: "isutty" <isutty@...>
To: <mkars80@...>
Sent: Tuesday, January 19, 2010 8:38 PM
Subject: [mkars80] Re: VFO looses lock after releasing ptt

>
> Steve,
> I have fixed my problem with the VFO lock. The regulator was OK. I
> re-touched all the solder points around the vfo.... didn't fix it. I then
> re-tuned the balanced mixer. YEAH! problem solved. Now as solid as a rock.
> Thanks to all who offered advice.
> Best 73 Ian
> VK5IS
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Check also the output of the 8V regulator witha meter, make sure it
>> doesn't
>> jump between TX and RX - just a thought, your power supply is > 10V and
>> its
>> not jumping when you release the PTT is it?
>>
>> The VFO buffer is effective and I've not had this problem on a production
>> kit - I did have it on the prototype before I supplied the VFO and buffer
>> from the 8V regulator.
>>
>> If all else fails you know where to send it!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "g8uug" <a@...>
>> To: <mkars80@...>
>> Sent: Monday, January 18, 2010 10:08 PM
>> Subject: [mkars80] Re: VFO looses lock after releasing ptt
>>
>>
>> >

>> >
>> > --- In mkars80@..., "isutty" <isutty@> wrote:
>> >>
>> >> HI Team,
>> >> I have had my MKARS80 going for a couple of months. Its GREAT!
>> >> BUT it has developed an annoying fault though..
>> >> When I release the PTT it looses lock. I get the U for the 3 seconds
>> >> while it settles down. This happens even after 2 hours warm up. It was
>> >> fine when I first built it. I have re checked the TX bias. Any
>> >> thoughts
>> >> would be appreciated please.
>> >> best 73 Ian VK5IS
>> >>
>> >
>> > Hi Ian, I am new to this group, This type of fault is always tricky,
>> > the
>> > VFO is not switched between TX and RX, however the VFO is getting
>> > disturbed, by what you say. You are going to have to check for poor
>> > soldered joints, try warming up the board, and see if you can locate a
>> > sensitive area. Have you tried to re-align maybe the VCO is just on the
>> > edge of its control range. I am not sure the TX bias would stop the
>> > lock,
>> > as the VCO would not even know if the PA strip was missing!! Measure
>> > the
>> > voltage on the centre of the fine tune pot, and scope it, see if it
>> > jumps
>> > between TX/RX let me know your out come. Do you have access to RF test
>> > equipment?
>> >
>> > 73
>> >
>> > Andrew
>> >
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>> > Yahoo! Groups Links
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1493. Re: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-19 22:44:14 UTC
From: Steve Drury
Topic: 1453 Message: 1493

Phil,
Are you using version 2.4 firmware - its displayed on the start-up screen.

Was this a slow drift and did the tuning bars move?

Steve

----- Original Message -----
From: "zip" <phil-yah@...>
To: <mkars80@...>
Sent: Tuesday, January 19, 2010 9:46 PM
Subject: [mkars80] Building my mkars80

> Hi Steve,
>
> Over the last couple of days I've been using my 80 in digi mode and while
> I was play this afternoon I have a receiver alongside and I noticed that
> while I was transmitting the audio from the receiver was drifting, not by
> much, but I could hear it. To cut the story short I can confirm that this
> drift was due to temperature build-up inside the case. So I think my first
> mod will probably be the fitting of a miniature 12v fan inside the case
> and make some vents for the air flow.
>
> Phil
>
>
>
>
> ------------------------------------
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> Yahoo! Groups Links
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>

1494. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-20 11:56:53 UTC
From: Phil
Topic: 1453 Message: 1494

Steve,

I can confirm its v2.4.

The drift was happening during digi mode transmission and I was listening to my transmission on a separate receiver. The drift was very slow but it was continues and an indication that it could be temperature related.

I believe it to be heat build-up inside the case during transmission because I was on the air last night for an hour in digi mode with the base of the case removed (not ideal) but just to test to see if airflow would stop the drift. During that time I was again listening to my transmission and I didn't hear any drift.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 19 January 2010 22:44
To: mkars80@...
Subject: Re: [mkars80] Building my mkars80

Phil,
Are you using version 2.4 firmware - its displayed on the start-up screen.

Was this a slow drift and did the tuning bars move?

Steve

----- Original Message -----
From: "zip" <phil-yah@...>
To: <mkars80@...>
Sent: Tuesday, January 19, 2010 9:46 PM
Subject: [mkars80] Building my mkars80

> Hi Steve,
>
> Over the last couple of days I've been using my 80 in digi mode and while
> I was play this afternoon I have a receiver alongside and I noticed that
> while I was transmitting the audio from the receiver was drifting, not by
> much, but I could hear it. To cut the story short I can confirm that this
> drift was due to temperature build-up inside the case. So I think my first

> mod will probably be the fitting of a miniature 12v fan inside the case
> and make some vents for the air flow.
>
> Phil

>
>
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>
> Yahoo! Groups Links
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Yahoo! Groups Links

1495. RE: [mkars80] Building my mkars80

Yahoo group: mkars80
Date: 2010-01-20 12:54:37 UTC
From: Steve Bell
Topic: 1453 Message: 1495

Phil,

When using digital modes such as PSK31 the output FET is turned on for much more longer periods than with SSB speech. This is likely to be warming things up more than with normal use.

Steve M6SGB

On Wednesday, January 20, 2010, at 11:56AM, "Phil" <phil-yah@...> wrote:
>

[Non-text portions of this message have been removed]

1496. Re: [mkars80] OOoops, not working

Yahoo group: mkars80
Date: 2010-01-26 21:07:41 UTC
From: Luis M
Topic: 1448 Message: 1496

Hi to all:
My apologies for the delay in replying ... Murphy (The Murphy's Law) has continued to visit me this year ... the car, the boiler, snow ... Finally everything seems better ;-)))))))))))))))))))
Following your suggestions I checked BFO and VFO transistors (RX) (measured values in brackets)
BFO section
E B C
Q7 0(0) 0.39(0.65) 2.2(2.5)
Q16 3.9(5.4) 4.1(6.1) 7.2(6.9)
Q18 4.2(6.1) 4.3(6.9) 7.2(6.9)
The problem seems to be here
transistors replaced tomorrow and see the result
VFO section
Q11 3.6(3.8) 3.6(3.6) 7.5(7.5)
Q12 3.0(3.2) 3.65(3.83) 7.5(7.5)
Why are there no good measurements in TP VFO?

72´s EB4EPY LuisM Ciudad Real Spain

[Non-text portions of this message have been removed]

1497. Re: [mkars80] OOoops, not working

Yahoo group: mkars80
Date: 2010-01-26 21:38:17 UTC
From: Steve Drury
Topic: 1448 Message: 1497

Yes there is something wrong around Q18 - is there a blob of solder between colector and base, check the top side of PCB.

If you have an oscilloscope check for a waveform on the emitters of Q11 and Q12.

Regards,
Steve G6ALU

----- Original Message -----
From: "Luis M" <vagubix@...>
To: <mkars80@...>
Sent: Tuesday, January 26, 2010 9:07 PM
Subject: Re: [mkars80] OOoops, not working

Hi to all:
My apologies for the delay in replying ... Murphy (The Murphy's Law) has continued to visit me this year ... the car, the boiler, snow ... Finally everything seems better ;-))))))))))))))))))
Following your suggestions I checked BFO and VFO transistors (RX) (measured values in brackets)
BFO section
E B C
Q7 0(0) 0.39(0.65) 2.2(2.5)
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The problem seems to be here
transistors replaced tomorrow and see the result
VFO section
Q11 3.6(3.8) 3.6(3.6) 7.5(7.5)
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Why are there no good measurements in TP VFO?

72?s EB4EPY LuisM Ciudad Real Spain

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1498. Re: [mkars80] OOoops, not working

Yahoo group: mkars80
Date: 2010-01-27 19:34:33 UTC
From: Luis M
Topic: 1448 Message: 1498

Hi to all:
EXCELLENT SOLUTION Steve.
Really there was a short circuit between collector and base of Q18, for the side of the welding... a beginner's error...
The oscilloscope shows signs sinoidales in emitters of Q11 and Q12 (1 to 2.4 v p/p +-6Mhz). The frequency does not appear in the display

To the beginning it shows message
MKARS80 v2.4
www.mkars.org.uk

later
LSB 0.000.000 Hz
Bat 12.7V U

The number of the Mhz shows a strange symbol (similar to Unicode U+018F) and the rest quite to zero

---
De: Steve Drury <g6alu@...>
Para: mkars80@yahoogroups.co.uk
Enviado: mar,26 enero, 2010 22:38
Asunto: Re: [mkars80] OOoops, not working

Yes there is something wrong around Q18 - is there a blob of solder between colector and base, check the top side of PCB.

If you have an oscilloscope check for a waveform on the emitters of Q11 and Q12.

Regards,
Steve G6ALU

----- Original Message -----
From: "Luis M" <vagubix@yahoo. es>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, January 26, 2010 9:07 PM
Subject: Re: [mkars80] OOoops, not working

Hi to all:
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72´s EB4EPY LuisM Ciudad Real Spain

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

1499. Re: [mkars80] OOoops, not working

Yahoo group: mkars80
Date: 2010-01-27 20:07:18 UTC
From: Steve Drury
Topic: 1448 Message: 1499

Luis,
As you have a waveform at Q12 emitter you should have one at TP VFO, please check.

What voltages have you got on Q8? If OK check pin 12 of IC2 with your oscilloscope, there should be a large waveform there.

Regards,
Steve G6ALU

----- Original Message -----
From: "Luis M" <vagubix@...>
To: <mkars80@...>
Sent: Wednesday, January 27, 2010 7:34 PM
Subject: Re: [mkars80] OOoops, not working

Hi to all:
EXCELLENT SOLUTION Steve.
Really there was a short circuit between collector and base of Q18, for the side of the welding... a beginner's error...
The oscilloscope shows signs sinoidales in emitters of Q11 and Q12 (1 to 2.4 v p/p +-6Mhz).
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LSB ∂.000.000 Hz
Bat 12.7V U

The number of the Mhz shows a strange symbol (similar to Unicode U+018F) and the rest quite to zero

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De: Steve Drury <g6alu@...>
Para: mkars80@...
Enviado: mar,26 enero, 2010 22:38
Asunto: Re: [mkars80] OOoops, not working

Yes there is something wrong around Q18 - is there a blob of solder between colector and base, check the top side of PCB.

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Regards,
Steve G6ALU

----- Original Message -----
From: "Luis M" <vagubix@yahoo. es>
To: <mkars80@yahoogroups .co.uk>
Sent: Tuesday, January 26, 2010 9:07 PM
Subject: Re: [mkars80] OOoops, not working

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72´s EB4EPY LuisM Ciudad Real Spain

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1500. Re: [mkars80] OOoops, not working

Yahoo group: mkars80
Date: 2010-01-27 20:54:10 UTC
From: Luis M
Topic: 1448 Message: 1500

Hi Steve:
The problem is solved.
Q8 buffer was damaged, perhaps much heating during welding ... was replaced and everything works fine.
Tomorrow I will complete the final alignment
I will publish photos in the section for you to see the final result of the project.

THANK YOU FOR YOUR HELP

72's EB4EPY LuisM Ciudad Real Spain

De: Steve Drury <g6alu@...>
Para: mkars80@...
Enviado: mié,27 enero, 2010 21:07
Asunto: Re: [mkars80] OOoops, not working

Luis,
As you have a waveform at Q12 emitter you should have one at TP VFO, please check.

What voltages have you got on Q8? If OK check pin 12 of IC2 with your oscilloscope, there should be a large waveform there.

Regards,
Steve G6ALU

----- Original Message -----
From: "Luis M" <vagubix@yahoo. es>
To: <mkars80@yahoogroups .co.uk>
Sent: Wednesday, January 27, 2010 7:34 PM
Subject: Re: [mkars80] OOoops, not working

Hi to all:
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later
LSB ∂.000.000 Hz

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The number of the Mhz shows a strange symbol (similar to Unicode U+018F) and the rest quite to zero

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De: Steve Drury <g6alu@tiscali. co.uk>
Para: mkars80@yahoogroups .co.uk
Enviado: mar,26 enero, 2010 22:38
Asunto: Re: [mkars80] OOoops, not working

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Regards,
Steve G6ALU

----- Original Message -----
From: "Luis M" <vagubix@yahoo. es>
To: <mkars80@yahoogroup s .co.uk>
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Why are there no good measurements in TP VFO?

72´s EB4EPY LuisM Ciudad Real Spain

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1501. Re: [mkars80] OOoops, not working

Yahoo group: mkars80
Date: 2010-01-27 20:56:01 UTC
From: Steve Drury
Topic: 1448 Message: 1501

OK Louis,
Best of luck.

Steve G6ALU

----- Original Message -----
From: "Luis M" <vagubix@...>
To: <mkars80@...>
Sent: Wednesday, January 27, 2010 8:54 PM
Subject: Re: [mkars80] OOoops, not working

Hi Steve:
The problem is solved.
Q8 buffer was damaged, perhaps much heating during welding ... was replaced
and everything works fine.
Tomorrow I will complete the final alignment
I will publish photos in the section for you to see the final result of the
project.

THANK YOU FOR YOUR HELP

72's EB4EPY LuisM Ciudad Real Spain

De: Steve Drury <g6alu@...>
Para: mkars80@...
Enviado: mié,27 enero, 2010 21:07
Asunto: Re: [mkars80] OOoops, not working

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Regards,
Steve G6ALU

----- Original Message -----
From: "Luis M" <vagubix@yahoo. es>
To: <mkars80@yahoogroups .co.uk>
Sent: Wednesday, January 27, 2010 7:34 PM
Subject: Re: [mkars80] OOoops, not working

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Para: mkars80@yahoogroups .co.uk
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Steve G6ALU

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The problem seems to be here
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VFO section
Q11 3.6(3.8) 3.6(3.6) 7.5(7.5)

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Why are there no good measurements in TP VFO?

72′s EB4EPY LuisM Ciudad Real Spain

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1502. construction finished

Yahoo group: mkars80
Date: 2010-01-29 17:25:47 UTC
From: robpegsuk
Topic: 1502 Message: 1502

Finished the build today, just Alignment to finish. display working and full sweep of the band. and can RX stations. so 90% finished. Rob M0TFO

1503. R2 PA bias current

Yahoo group: mkars80
Date: 2010-01-30 15:35:18 UTC
From: robpegsuk
Topic: 1503 Message: 1503

just need to check this with you! with R2 fully Anti-clockwise. with closed ptt I'm getting around 270mA Does this seem a little high? or would adding 50 ± 5mA be ok??
Rob

1504. Re: [mkars80] R2 PA bias current

Yahoo group: mkars80
Date: 2010-01-30 16:18:14 UTC
From: Steve Drury
Topic: 1503 Message: 1504

Rob,

With R2 fully anti-clockwise 270mA is typical, with no modulation adjust it for a 50mA increase IE 320MA. I suspect your supply is quite high?

Steve G6ALU

----- Original Message -----
From: "robpegsuk" <robpegs@...>
To: <mkars80@...>
Sent: Saturday, January 30, 2010 3:35 PM
Subject: [mkars80] R2 PA bias current

just need to check this with you! with R2 fully Anti-clockwise. with closed ptt I'm getting around 270mA Does this seem a little high? or would adding 50 ? 5mA be ok??
Rob

Yahoo! Groups Links

1505. Re: [mkars80] R2 PA bias current

Yahoo group: mkars80
Date: 2010-01-30 17:07:10 UTC
From: Robert Styles
Topic: 1503 Message: 1505

Ok Thanks Steve, well all finished Bar the box, and all seems 100%, I was a bit worried near the end as there was two resistors left over,guess this was an over count by yourself. so on to fitting it into the box tomorrow. 13.4v by the way..
73
Rob
On 30 Jan 2010, at 16:18, Steve Drury wrote:

> Rob,
>
> With R2 fully anti-clockwise 270mA is typical, with no modulation adjust it
> for a 50mA increase IE 320MA. I suspect your supply is quite high?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "robpegsuk" <robpegs@...>
> To: <mkars80@...>
> Sent: Saturday, January 30, 2010 3:35 PM
> Subject: [mkars80] R2 PA bias current
>
> just need to check this with you! with R2 fully Anti-clockwise. with closed
> ptt I'm getting around 270mA Does this seem a little high? or would adding
> 50 ? 5mA be ok??
> Rob
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

[Non-text portions of this message have been removed]

1506. Re: [mkars80] R2 PA bias current

Yahoo group: mkars80
Date: 2010-01-30 17:41:00 UTC
From: Steve Drury
Topic: 1503 Message: 1506

Sorry about the resistors - you will otften find an extra 100nF capacitor as we put 1 extra in the kit.

Steve G6ALU

----- Original Message -----
From: "Robert Styles" <robpegs@...>
To: <mkars80@...>
Sent: Saturday, January 30, 2010 5:07 PM
Subject: Re: [mkars80] R2 PA bias current

Ok Thanks Steve, well all finished Bar the box, and all seems 100%, I was a bit worried near the end as there was two resistors left over,guess this was an over count by yourself. so on to fitting it into the box tomorrow. 13.4v by the way..
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> Steve G6ALU
>
> ----- Original Message -----
> From: "robpegsuk" <robpegs@...>
> To: <mkars80@...>
> Sent: Saturday, January 30, 2010 3:35 PM
> Subject: [mkars80] R2 PA bias current
>
> just need to check this with you! with R2 fully Anti-clockwise. with
> closed
> ptt I'm getting around 270mA Does this seem a little high? or would adding
> 50 ? 5mA be ok??
> Rob
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1507. RE: [mkars80] R2 PA bias current

Yahoo group: mkars80
Date: 2010-01-30 18:18:57 UTC
From: David White
Topic: 1503 Message: 1507

just to let you know steve that phil has fitted a mini blower fan into the top of his MKARS80 case as he only uses it on digi modes at full duty cycle and he said it gets rather hot, he only did it today so will see how it copes. its the smallest fan ive seen for ages de G3ZPA

NNNN

To: mkars80@...
From: g6alu@...
Date: Sat, 30 Jan 2010 17:41:00 +0000
Subject: Re: [mkars80] R2 PA bias current

Sorry about the resistors - you will otften find an extra 100nF capacitor as we put 1 extra in the kit.

Steve G6ALU

----- Original Message -----
From: "Robert Styles" <robpegs@...>
To: <mkars80@...>
Sent: Saturday, January 30, 2010 5:07 PM
Subject: Re: [mkars80] R2 PA bias current

Ok Thanks Steve, well all finished Bar the box, and all seems 100%, I was a bit worried near the end as there was two resistors left over,guess this was an over count by yourself. so on to fitting it into the box tomorrow. 13.4v by the way..
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> ----- Original Message -----
> From: "robpegsuk" <robpegs@...>
> To: <mkars80@...>
> Sent: Saturday, January 30, 2010 3:35 PM
> Subject: [mkars80] R2 PA bias current
>
> just need to check this with you! with R2 fully Anti-clockwise. with
> closed

> ptt I'm getting around 270mA Does this seem a little high? or would adding
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> ---
>
> Yahoo! Groups Links
>
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[Non-text portions of this message have been removed]

Yahoo! Groups Links

_____
We want to hear all your funny, exciting and crazy Hotmail stories. Tell us now
http://clk.atdmt.com/UKM/go/195013117/direct/01/

[Non-text portions of this message have been removed]

1508. RE: [mkars80] R2 PA bias current

Yahoo group: mkars80
Date: 2010-01-30 21:20:54 UTC
From: Phil
Topic: 1503 Message: 1508

I wound it up to full power tonight on digi mode without any noticeable freq drift. The fan is 12v but only 1 1/2" dia but I think its doing the business.

I did manage to contact John Pether tonight using my 80 + fan via digi mode, but too much QRM so the exchange was a bit sporadic.

Is anyone else in the group using an 80 in digi mode???????

Phil
M6ETC

-----Original Message-----
From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf Of David White
Sent: 30 January 2010 18:19
To: mkars80@yahoogroups.co.uk
Subject: RE: [mkars80] R2 PA bias current

just to let you know steve that phil has fitted a mini blower fan into the top of his MKARS80 case as he only uses it on digi modes at full duty cycle and he said it gets rather hot, he only did it today so will see how it copes. its the smallest fan ive seen for ages de G3ZPA

NNNN

To: mkars80@yahoogroups.co.uk
From: g6alu@...
Date: Sat, 30 Jan 2010 17:41:00 +0000
Subject: Re: [mkars80] R2 PA bias current

Sorry about the resistors - you will otften find an extra 100nF capacitor as

we put 1 extra in the kit.

Steve G6ALU

----- Original Message -----
From: "Robert Styles" <robpegs@...>
To: <mkars80@...>
Sent: Saturday, January 30, 2010 5:07 PM
Subject: Re: [mkars80] R2 PA bias current

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> From: "robpegsuk" <robpegs@hotmail.com>
> To: <mkars80@...>
> Sent: Saturday, January 30, 2010 3:35 PM
> Subject: [mkars80] R2 PA bias current
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> just need to check this with you! with R2 fully Anti-clockwise. with
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Yahoo! Groups Links

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We want to hear all your funny, exciting and crazy Hotmail stories. Tell us
now
http://clk.atdmt.com/UKM/go/195013117/direct/01/

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1509. Low output power

Yahoo group: mkars80
Date: 2010-01-30 23:45:29 UTC
From: Jerome
Topic: 1509 Message: 1509

Hello all, Just finished my mkars80 and everything works great. The only question I have is how to increase the output power. I can only get 3.5 watts out and from what I read on this site everyone else is getting 6 watts out. Is there anything I should look for to increase the power ? Thanks Jerry

1510. So close but so far! Please help me get my MKARS80 on air

Yahoo group: mkars80
Date: 2010-01-31 09:13:59 UTC
From: Carl
Topic: 1510 Message: 1510

Good morning group!

(from Carl, DA6TEC // da6tec@...)

Thank you to Steve for help over the last few days, now 90% complete in building the MKARS80. I thought it better to ask these questions and request help from you kind people on the yahoo group!

I am making some progress with my MKARS80 although I am now having a few pronlems aligining it for tx and on closer inspection have found some transistor voltage measurements to be different to that expected from voltage tables in the manual.

In outline:
- Kit built, rcvr working very well (listening to west coast US on dx part of band last night).
- LCD working fine and aligned.
- tuning range set up
- All component placement checked and checked for solder blobs and dry joints (althouh I am not an expert!)

Some figures:
- current drawn on rx is 110mA at 13.8V DC
- current drawn on tx was 240mA at 13.8v and noww adjusted to 285mA using R2 and the bias procedure in the manual
- R59 and C103 adjusted whilst tx into 100W dummy load but seems to have little effect on power output

Problem:

When I PTT 'on' I output a high pitched tone at 1.5 - 1.8W. There is not audio being picked up by the elecret microphone insert i am using (tapping it, speaking into it etc show now difference in output power or audio received on an adjacent monitor tcvr)

Of the measurements in the table below the most significant differences comapred to the table in the manual are all on tx (figures in brackets are figures in manual, my measurements not in brackets):

(I should add that I do not have a full RF lab here in the broom cupboard!) I have a multimeter, RF probe, dummy load and a commercial tcvr for reference (FT817) and a big mug of tea :)

All on TX:
Q9
E=3.7V (2.4V)
B=2.1V (3.2V)

Q10
C=6.8V (3.8V)

Q20
E=3.6V (2.9V)
B=2.9V (3.7V)

Q21
B=2.1V (2.8V)

Transistor Receive Transmit
Gate Drain Source Gate Drain Source
Q1 0 13.89 0

Emitter Base Collector Emitter Base Collector
Q2 0.65 4.7
Q3 0 0.7 0
Q4 4 4.7 12.45
Q5 1.5 2 12.1
Q6 0. 0.65 0.65 0 .65 .65
Q7 0 0.35 2.7 0 0.36 2.7
Q8 0 0.65 2.2 0 .65 2.2
Q9 3.7 2.1 10.95
Q10 2.7 3.5 6.8
Q11 3.94 3.5 7.55 3.9 3.7 7.4
Q12 3.3 3.8 7.45 3.3 3.8 7.5
Q13 4 4.5 9.5 4 4.5 9.4
Q14 0 0.63 0.465
Q15 2.15 2.81 9.1
Q16 3.4 NOT MEASURED 7.2 3.5 3.5 7.2
Q17 4 4.65 12.85
Q18 3.7 3.5 7.5 3.7 3.4 7.2
Q19 3.7 3 7.6
Q20 3.6 2.9 7.3
Q21 2.10 2.1 9
Q22 2.5 3.2 10.3

Thank you for any help or advice.

Kind regards

73
Carl
DA6TEC
(British but living and working in DL)

1511. mixer balance

Yahoo group: mkars80
Date: 2010-01-31 10:21:14 UTC
From: robpegsuk
Topic: 1511 Message: 1511

Just a quick question before i fit the radio into the case.
I only have access to a DVM, I have adjusted R59 and reduced to Zero, my question is, this has been done without any adjustment on C103. should i bring R59 up a little and then adjust C103 to bring back down to Zero,thus trimming using both R59 and C103.

Or just leave it at Zero just using R59.

Rob

1512. Re: [mkars80] mixer balance

Yahoo group: mkars80
Date: 2010-01-31 10:37:30 UTC
From: Steve Drury
Topic: 1511 Message: 1512

Rob,

You need to follow the instructions in the manual as closely as you can - adjust R59 and C103 for minimum carrier out WITHOUT any modulation, note they interact so you will have to adjust C103 a little then re-adjust R59. If you haven't got another receiver or oscilloscope it is possible to monitor the level of RF with a 1N4148 diode simply "poked" into the RF socket and monitored with your DVM. When you have reached the point of mixer balance the voltage measured will be low.

When making this adjustment put the MKARS80 into transmit by inserting a microphone plug with all pins shorted, also make sure you adjust the PA bias FIRST!

Steve G6ALU

----- Original Message -----
From: "robpegsuk" <robpegs@...>
To: <mkars80@...>
Sent: Sunday, January 31, 2010 10:21 AM
Subject: [mkars80] mixer balance

> Just a quick question before i fit the radio into the case.
> I only have access to a DVM, I have adjusted R59 and reduced to Zero, my
> question is, this has been done without any adjustment on C103. should i
> bring R59 up a little and then adjust C103 to bring back down to Zero,thus
> trimming using both R59 and C103.
>
> Or just leave it at Zero just using R59.
>
> Rob
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1513. Re: [mkars80] mixer balance

Yahoo group: mkars80
Date: 2010-01-31 11:30:42 UTC
From: Robert Styles
Topic: 1511 Message: 1513

Sorry forgot to add I do have a Receiver to monitor, I guess 103 was not far off to start with then, as a slight tweak on R59 dropped the level to near on zero.
On 31 Jan 2010, at 10:37, Steve Drury wrote:

> Rob,
>
> You need to follow the instructions in the manual as closely as you can -
> adjust R59 and C103 for minimum carrier out WITHOUT any modulation, note
> they interact so you will have to adjust C103 a little then re-adjust R59.
> If you haven't got another receiver or oscilloscope it is possible to
> monitor the level of RF with a 1N4148 diode simply "poked" into the RF
> socket and monitored with your DVM. When you have reached the point of mixer
> balance the voltage measured will be low.
>
> When making this adjustment put the MKARS80 into transmit by inserting a
> microphone plug with all pins shorted, also make sure you adjust the PA bias
> FIRST!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "robpegsuk" <robpegs@hotmail.com>
> To: <mkars80@...>
> Sent: Sunday, January 31, 2010 10:21 AM
> Subject: [mkars80] mixer balance
>
> > Just a quick question before i fit the radio into the case.
> > I only have access to a DVM, I have adjusted R59 and reduced to Zero, my
> > question is, this has been done without any adjustment on C103. should i
> > bring R59 up a little and then adjust C103 to bring back down to Zero,thus
> > trimming using both R59 and C103.
> >
> > Or just leave it at Zero just using R59.
> >
> > Rob
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

1514. Re: [mkars80] So close but so far! Please help me get my MKARS80 on air

Yahoo group: mkars80
Date: 2010-01-31 11:35:46 UTC
From: Peter Fraser
Topic: 1510 Message: 1514

Hi Carl

Just looking at your voltages I would suggest you have a short circuit, such as solder or similar, between the Emitter and Base of Q21.

I would also suggest verifying the orientation and component type of Q9, Q10 and Q20. Are Q9 and Q20 both MPSH10? Are they correctly inserted? They should match the screen print on the board. Also remember when measuring the MPSH10 transistor voltages that they have a different pin out to the BC547. See page 19 of the V1.3 manual for details.

I hope this helps.

Regards

Peter VK3ZPF

----- Original Message -----
From: Carl
To: mkars80@...
Sent: Sunday, January 31, 2010 8:13 PM
Subject: [mkars80] So close but so far! Please help me get my MKARS80 on air

Good morning group!

(from Carl, DA6TEC // da6tec@...)

Thank you to Steve for help over the last few days, now 90% complete in building the MKARS80. I thought it better to ask these questions and request help from you kind people on the yahoo group!

I am making some progress with my MKARS80 although I am now having a few pronlems aligining it for tx and on closer inspection have found some transistor voltage measurements to be different to that expected from voltage tables in the manual.

In outline:
- Kit built, rcvr working very well (listening to west coast US on dx part of band last night).
- LCD working fine and aligned.
- tuning range set up
- All component placement checked and checked for solder blobs and dry joints (althouh I am not an expert!)

Some figures:
- current drawn on rx is 110mA at 13.8V DC
- current drawn on tx was 240mA at 13.8v and noww adjusted to 285mA using R2 and the bias procedure in the manual

- R59 and C103 adjusted whilst tx into 100W dummy load but seems to have little effect on power output

Problem:

When I PTT 'on' I output a high pitched tone at 1.5 - 1.8W. There is not audio being picked up by the elecret microphone insert i am using (tapping it, speaking into it etc show now difference in output power or audio received on an adjacent monitor tcvr)

Of the measurements in the table below the most significant differences comapred to the table in the manual are all on tx (figures in brackets are figures in manual, my measurements not in brackets):

(I should add that I do not have a full RF lab here in the broom cupboard!) I have a multimeter, RF probe, dummy load and a commercial tcvr for reference (FT817) and a big mug of tea :)

All on TX:
Q9
E=3.7V (2.4V)
B=2.1V (3.2V)

Q10
C=6.8V (3.8V)

Q20
E=3.6V (2.9V)
B=2.9V (3.7V)

Q21
B=2.1V (2.8V)

Transistor Receive Transmit
Gate Drain Source Gate Drain Source
Q1 0 13.89 0

Emitter Base Collector Emitter Base Collector
Q2 0.65 4.7
Q3 0 0.7 0
Q4 4 4.7 12.45
Q5 1.5 2 12.1
Q6 0. 0.65 0.65 0 .65 .65
Q7 0 0.35 2.7 0 0.36 2.7
Q8 0 0.65 2.2 0 .65 2.2
Q9 3.7 2.1 10.95
Q10 2.7 3.5 6.8
Q11 3.94 3.5 7.55 3.9 3.7 7.4
Q12 3.3 3.8 7.45 3.3 3.8 7.5
Q13 4 4.5 9.5 4 4.5 9.4
Q14 0 0.63 0.465
Q15 2.15 2.81 9.1
Q16 3.4 NOT MEASURED 7.2 3.5 3.5 7.2
Q17 4 4.65 12.85

Q18 3.7 3.5 7.5 3.7 3.4 7.2
Q19 3.7 3 7.6
Q20 3.6 2.9 7.3
Q21 2.10 2.1 9
Q22 2.5 3.2 10.3

Thank you for any help or advice.

Kind regards

73
Carl
DA6TEC
(British but living and working in DL)

[Non-text portions of this message have been removed]

1515. Re: [mkars80] mixer balance

Yahoo group: mkars80
Date: 2010-01-31 14:42:33 UTC
From: Steve Drury
Topic: 1511 Message: 1515

You normall have to adjust C103 about 1/2 a turn but if you can't hear the carrier dont worry - check the SWR meter is registering zero power.

Steve

----- Original Message -----
From: "Robert Styles" <robpegs@...>
To: <mkars80@...>
Sent: Sunday, January 31, 2010 11:30 AM
Subject: Re: [mkars80] mixer balance

> Sorry forgot to add I do have a Receiver to monitor, I guess 103 was not
> far off to start with then, as a slight tweak on R59 dropped the level to
> near on zero.
> On 31 Jan 2010, at 10:37, Steve Drury wrote:
>
>> Rob,
>>
>> You need to follow the instructions in the manual as closely as you can -
>> adjust R59 and C103 for minimum carrier out WITHOUT any modulation, note
>> they interact so you will have to adjust C103 a little then re-adjust
>> R59.
>> If you haven't got another receiver or oscilloscope it is possible to
>> monitor the level of RF with a 1N4148 diode simply "poked" into the RF
>> socket and monitored with your DVM. When you have reached the point of
>> mixer
>> balance the voltage measured will be low.
>>
>> When making this adjustment put the MKARS80 into transmit by inserting a
>> microphone plug with all pins shorted, also make sure you adjust the PA
>> bias
>> FIRST!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "robpegsuk" <robpegs@...>
>> To: <mkars80@...>
>> Sent: Sunday, January 31, 2010 10:21 AM
>> Subject: [mkars80] mixer balance
>>
>> > Just a quick question before i fit the radio into the case.
>> > I only have access to a DVM, I have adjusted R59 and reduced to Zero,
>> > my
>> > question is, this has been done without any adjustment on C103. should
>> > i

>> > bring R59 up a little and then adjust C103 to bring back down to
>> > Zero,thus
>> > trimming using both R59 and C103.
>> >
>> > Or just leave it at Zero just using R59.
>> >
>> > Rob
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>> > ------------------------------------
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1516. Re: [mkars80] So close but so far! Please help me get my MKARS80 on air

Yahoo group: mkars80
Date: 2010-01-31 15:05:03 UTC
From: Steve Drury
Topic: 1510 Message: 1516

Carl,

This could be the result of poor mixer balance - see my email to Peter to see methods of adjustment; do not adjust with a microphone connected. If you can't get balance (that is zero output power) check the transformer T5 is soldered properly.

Looking at your voltage readings I suspect you have got confused with the transistor pinouts. There are 3 differing types of pinout used with the ZTX615, BC series and MPSH10.

Steve

----- Original Message -----
From: "Carl" <da6tec@...>
To: <mkars80@...>
Sent: Sunday, January 31, 2010 9:13 AM
Subject: [mkars80] So close but so far! Please help me get my MKARS80 on air

> Good morning group!
>
> (from Carl, DA6TEC // da6tec@...)
>
> Thank you to Steve for help over the last few days, now 90% complete in
> building the MKARS80. I thought it better to ask these questions and
> request help from you kind people on the yahoo group!
>
> I am making some progress with my MKARS80 although I am now having a few
> pronlems aligining it for tx and on closer inspection have found some
> transistor voltage measurements to be different to that expected from
> voltage tables in the manual.
>
> In outline:
> - Kit built, rcvr working very well (listening to west coast US on dx part
> of band last night).
> - LCD working fine and aligned.
> - tuning range set up
> - All component placement checked and checked for solder blobs and dry
> joints (althouh I am not an expert!)
>
> Some figures:
> - current drawn on rx is 110mA at 13.8V DC
> - current drawn on tx was 240mA at 13.8v and noww adjusted to 285mA using
> R2 and the bias procedure in the manual
> - R59 and C103 adjusted whilst tx into 100W dummy load but seems to have

> little effect on power output
>
> Problem:
>
> When I PTT 'on' I output a high pitched tone at 1.5 - 1.8W. There is not
> audio being picked up by the elecret microphone insert i am using (tapping
> it, speaking into it etc show now difference in output power or audio
> received on an adjacent monitor tcvr)
>
> Of the measurements in the table below the most significant differences
> comapred to the table in the manual are all on tx (figures in brackets are
> figures in manual, my measurements not in brackets):
>
> (I should add that I do not have a full RF lab here in the broom
> cupboard!) I have a multimeter, RF probe, dummy load and a commercial
> tcvr for reference (FT817) and a big mug of tea :)
>
> All on TX:
> Q9
> E=3.7V (2.4V)
> B=2.1V (3.2V)
>
> Q10
> C=6.8V (3.8V)
>
> Q20
> E=3.6V (2.9V)
> B=2.9V (3.7V)
>
> Q21
> B=2.1V (2.8V)
>
>
> Transistor Receive Transmit
> Gate Drain Source Gate Drain Source
> Q1 0 13.89 0
>
> Emitter Base Collector Emitter Base Collector
> Q2 0.65 4.7
> Q3 0 0.7 0
> Q4 4 4.7 12.45
> Q5 1.5 2 12.1
> Q6 0. 0.65 0.65 0 .65 .65
> Q7 0 0.35 2.7 0 0.36 2.7
> Q8 0 0.65 2.2 0 .65 2.2
> Q9 3.7 2.1 10.95
> Q10 2.7 3.5 6.8
> Q11 3.94 3.5 7.55 3.9 3.7 7.4
> Q12 3.3 3.8 7.45 3.3 3.8 7.5
> Q13 4 4.5 9.5 4 4.5 9.4

> Q14 0 0.63 0.465
> Q15 2.15 2.81 9.1
> Q16 3.4 NOT MEASURED 7.2 3.5 3.5 7.2
> Q17 4 4.65 12.85
> Q18 3.7 3.5 7.5 3.7 3.4 7.2
> Q19 3.7 3 7.6
> Q20 3.6 2.9 7.3
> Q21 2.10 2.1 9
> Q22 2.5 3.2 10.3
>
>
> Thank you for any help or advice.
>
> Kind regards
>
> 73
> Carl
> DA6TEC
> (British but living and working in DL)
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1517. Re: So close but so far! Please help me get my MKARS80 on air

Yahoo group: mkars80
Date: 2010-01-31 16:44:11 UTC
From: Carl
Topic: 1510 Message: 1517

Steve, Peter, all

Hi thanks for your help. I am still battling away at trying to get the radio on the air. I have looked through all the messages on the group and followed the advice (not sure specifically which email to Peter you were refering to but I think I have read everything!).

I note you suggested in one post shorting out Q3 Base and Emmiter whilst pressing the PTT with mic connected. As warned I did get massive feedback - white noise, loud hum and what sounded like faint music front a broadcast station.

I have checked and doubled checked the transistors. As you suspected, I had taken a couple of measurements off the wrong pins! Now that is sorted out the only reading that worries me is the Collector on Q10 which is measured at 6.8V rather than the 3.8V listed in the manual. (I just checked the 510 again and its' pins are at the correct voltages on rx and tx).

I had followed the setting-up of the PA bias as it states in the manual. It was drawing 260mA on tx (110mA in rx) with R2 fully ACW and no mic connnected. I increase it to 305mA by adjusting R2 slightly CW.

Setting up the mixer has been problematic. On PTT my wattmeter needle swings to the right in the 1W vicinity before returning to the zero mark in a fraction of a second. No carrier is detected on a nearby receiver. With an electret microphone insert connected there is no audio being picked up by the mic. Setting up the mixer is difficult because other than the initial spike when flicking the PTT to tx there is no carrier against which to adjust power.

I have resoldered T5 to try and iron out a fault there.

The red led modulator light remains fully lit. Even when an electret mic is connected (tried 3 inserts now) the red LED does not extinguish or flicker.

I am now well and truly stumped! ideas?

Thanks in advance for any help anyone can offer,

Carl
DA6TEC

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Carl,
>
> This could be the result of poor mixer balance - see my email to Peter to
> see methods of adjustment; do not adjust with a microphone connected. If you
> can't get balance (that is zero output power) check the transformer T5 is
> soldered properly.

>
> Looking at your voltage readings I suspect you have got confused with the
> transistor pinouts. There are 3 differing types of pinout used with the
> ZTX615, BC series and MPSH10.
>
> Steve
>
> ----- Original Message -----
> From: "Carl" <da6tec@...>
> To: <mkars80@...>
> Sent: Sunday, January 31, 2010 9:13 AM
> Subject: [mkars80] So close but so far! Please help me get my MKARS80 on air
>
>
> > Good morning group!
> >
> > (from Carl, DA6TEC // da6tec@...)
> >
> > Thank you to Steve for help over the last few days, now 90% complete in
> > building the MKARS80. I thought it better to ask these questions and
> > request help from you kind people on the yahoo group!
> >
> > I am making some progress with my MKARS80 although I am now having a few
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> > - All component placement checked and checked for solder blobs and dry
> > joints (althouh I am not an expert!)
> >
> > Some figures:
> > - current drawn on rx is 110mA at 13.8V DC
> > - current drawn on tx was 240mA at 13.8v and noww adjusted to 285mA using
> > R2 and the bias procedure in the manual
> > - R59 and C103 adjusted whilst tx into 100W dummy load but seems to have
> > little effect on power output
> >
> > Problem:
> >
> > When I PTT 'on' I output a high pitched tone at 1.5 - 1.8W. There is not
> > audio being picked up by the elecret microphone insert i am using (tapping
> > it, speaking into it etc show now difference in output power or audio
> > received on an adjacent monitor tcvr)
> >
> > Of the measurements in the table below the most significant differences

> > comapred to the table in the manual are all on tx (figures in brackets are
> > figures in manual, my measurements not in brackets):
> >
> > (I should add that I do not have a full RF lab here in the broom
> > cupboard!) I have a multimeter, RF probe, dummy load and a commercial
> > tcvr for reference (FT817) and a big mug of tea :)
> >
> > All on TX:
> > Q9
> > E=3.7V (2.4V)
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> >
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> > C=6.8V (3.8V)
> >
> > Q20
> > E=3.6V (2.9V)
> > B=2.9V (3.7V)
> >
> > Q21
> > B=2.1V (2.8V)
> >
> >
> > Transistor Receive Transmit
> > Gate Drain Source Gate Drain Source
> > Q1 0 13.89 0
> >
> > Emitter Base Collector Emitter Base Collector
> > Q2 0.65 4.7
> > Q3 0 0.7 0
> > Q4 4 4.7 12.45
> > Q5 1.5 2 12.1
> > Q6 0. 0.65 0.65 0 .65 .65
> > Q7 0 0.35 2.7 0 0.36 2.7
> > Q8 0 0.65 2.2 0 .65 2.2
> > Q9 3.7 2.1 10.95
> > Q10 2.7 3.5 6.8
> > Q11 3.94 3.5 7.55 3.9 3.7 7.4
> > Q12 3.3 3.8 7.45 3.3 3.8 7.5
> > Q13 4 4.5 9.5 4 4.5 9.4
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> > Q16 3.4 NOT MEASURED 7.2 3.5 3.5 7.2
> > Q17 4 4.65 12.85
> > Q18 3.7 3.5 7.5 3.7 3.4 7.2
> > Q19 3.7 3 7.6
> > Q20 3.6 2.9 7.3
> > Q21 2.10 2.1 9
> > Q22 2.5 3.2 10.3
> >

> >
> > Thank you for any help or advice.
> >
> > Kind regards
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> > 73
> > Carl
> > DA6TEC
> > (British but living and working in DL)
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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1518. Thanks for all the advice/tips

Yahoo group: mkars80
Date: 2010-01-31 18:52:48 UTC
From: robpegsuk
Topic: 1518 Message: 1518

Many thanks for the help and tips, My mkars80 is now up and running and had my first on air QSO, Just one thing I cant seem to find "the template for the case". I have looked in the file section ,but may of missed it. can you point me in the right direction..
Rob M0TFO

1519. Re: [mkars80] Thanks for all the advice/tips

Yahoo group: mkars80
Date: 2010-01-31 20:05:27 UTC
From: Peter Fraser
Topic: 1518 Message: 1519

Hi Rob

http://www.radio-kits.co.uk/mkars80page.html is where you will find the drilling template. (second item in the download list)

Take care to align the top and side carefully as I made a real mess of mine by not getting that right. See http://vk3zpf.blogspot.com/2009/12/mkars80-update-5.html

Regards

Peter VK3ZPF
http://vk3zpf.blogspot.com

----- Original Message -----
From: robpegsuk
To: mkars80@...
Sent: Monday, February 01, 2010 5:52 AM
Subject: [mkars80] Thanks for all the advice/tips

Many thanks for the help and tips, My mkars80 is now up and running and had my first on air QSO, Just one thing I cant seem to find "the template for the case". I have looked in the file section ,but may of missed it. can you point me in the right direction..
Rob M0TFO

[Non-text portions of this message have been removed]

1520. Re: [mkars80] Re: So close but so far! Please help me get my MKARS80 on air

Yahoo group: mkars80
Date: 2010-01-31 20:57:16 UTC
From: Steve Drury
Topic: 1510 Message: 1520

First don't worry about the high voltage on Q10 collector, this will depend on RF output.

305mA is a typical TX current with no audio so OK there.

When first pushing the PTT you will normally see a quick "kick" of the power meter, this is probably a good sign as it shows most of the stages are "alive".

Shorting B-E of Q3 shows the microphone amplifier is good so OK there.

If you connect a piece of wire to the antenna input of your receiver and drape the wire near (BUT NOT TOUCHING any part of the MKARS80) can you hear any modulation? Rock the tuning backwards and forwards just in case its not on tune.

Steve G6ALU

----- Original Message -----
From: "Carl" <da6tec@...>
To: <mkars80@...>
Sent: Sunday, January 31, 2010 4:44 PM
Subject: [mkars80] Re: So close but so far! Please help me get my MKARS80 on air

>
>
> Steve, Peter, all
>
> Hi thanks for your help. I am still battling away at trying to get the
> radio on the air. I have looked through all the messages on the group and
> followed the advice (not sure specifically which email to Peter you were
> refering to but I think I have read everything!).
>
> I note you suggested in one post shorting out Q3 Base and Emmiter whilst
> pressing the PTT with mic connected. As warned I did get massive
> feedback - white noise, loud hum and what sounded like faint music front a
> broadcast station.
>
> I have checked and doubled checked the transistors. As you suspected, I
> had taken a couple of measurements off the wrong pins! Now that is sorted
> out the only reading that worries me is the Collector on Q10 which is
> measured at 6.8V rather than the 3.8V listed in the manual. (I just
> checked the 510 again and its' pins are at the correct voltages on rx and
> tx).

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> I had followed the setting-up of the PA bias as it states in the manual.
> It was drawing 260mA on tx (110mA in rx) with R2 fully ACW and no mic
> connnected. I increase it to 305mA by adjusting R2 slightly CW.
>
> Setting up the mixer has been problematic. On PTT my wattmeter needle
> swings to the right in the 1W vicinity before returning to the zero mark
> in a fraction of a second. No carrier is detected on a nearby receiver.
> With an electret microphone insert connected there is no audio being
> picked up by the mic. Setting up the mixer is difficult because other
> than the initial spike when flicking the PTT to tx there is no carrier
> against which to adjust power.
>
> I have resoldered T5 to try and iron out a fault there.
>
> The red led modulator light remains fully lit. Even when an electret mic
> is connected (tried 3 inserts now) the red LED does not extinguish or
> flicker.
>
> I am now well and truly stumped! ideas?
>
> Thanks in advance for any help anyone can offer,
>
> Carl
> DA6TEC
>
>
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
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>> Carl,
>>
>> This could be the result of poor mixer balance - see my email to Peter to
>> see methods of adjustment; do not adjust with a microphone connected. If
>> you
>> can't get balance (that is zero output power) check the transformer T5 is
>> soldered properly.
>>
>> Looking at your voltage readings I suspect you have got confused with the
>> transistor pinouts. There are 3 differing types of pinout used with the
>> ZTX615, BC series and MPSH10.
>>
>> Steve
>>
>> ----- Original Message -----
>> From: "Carl" <da6tec@...>
>> To: <mkars80@...>
>> Sent: Sunday, January 31, 2010 9:13 AM

>> Subject: [mkars80] So close but so far! Please help me get my MKARS80 on
>> air
>>
>>
>> > Good morning group!
>> >
>> > (from Carl, DA6TEC // da6tec@...)
>> >
>> > Thank you to Steve for help over the last few days, now 90% complete in
>> > building the MKARS80. I thought it better to ask these questions and
>> > request help from you kind people on the yahoo group!
>> >
>> > I am making some progress with my MKARS80 although I am now having a
>> > few
>> > pronlems aligining it for tx and on closer inspection have found some
>> > transistor voltage measurements to be different to that expected from
>> > voltage tables in the manual.
>> >
>> > In outline:
>> > - Kit built, rcvr working very well (listening to west coast US on dx
>> > part
>> > of band last night).
>> > - LCD working fine and aligned.
>> > - tuning range set up
>> > - All component placement checked and checked for solder blobs and dry
>> > joints (althouh I am not an expert!)
>> >
>> > Some figures:
>> > - current drawn on rx is 110mA at 13.8V DC
>> > - current drawn on tx was 240mA at 13.8v and noww adjusted to 285mA
>> > using
>> > R2 and the bias procedure in the manual
>> > - R59 and C103 adjusted whilst tx into 100W dummy load but seems to
>> > have
>> > little effect on power output
>> >
>> > Problem:
>> >
>> > When I PTT 'on' I output a high pitched tone at 1.5 - 1.8W. There is
>> > not
>> > audio being picked up by the elecret microphone insert i am using
>> > (tapping
>> > it, speaking into it etc show now difference in output power or audio
>> > received on an adjacent monitor tcvr)
>> >
>> > Of the measurements in the table below the most significant differences
>> > comapred to the table in the manual are all on tx (figures in brackets
>> > are
>> > figures in manual, my measurements not in brackets):
>> >

>> > (I should add that I do not have a full RF lab here in the broom
>> > cupboard!) I have a multimeter, RF probe, dummy load and a commercial
>> > tcvr for reference (FT817) and a big mug of tea :)
>> >
>> > All on TX:
>> > Q9
>> > E=3.7V (2.4V)
>> > B=2.1V (3.2V)
>> >
>> > Q10
>> > C=6.8V (3.8V)
>> >
>> > Q20
>> > E=3.6V (2.9V)
>> > B=2.9V (3.7V)
>> >
>> > Q21
>> > B=2.1V (2.8V)
>> >
>> >
>> > Transistor Receive Transmit
>> > Gate Drain Source Gate Drain Source
>> > Q1 0 13.89 0
>> >
>> > Emitter Base Collector Emitter Base Collector
>> > Q2 0.65 4.7
>> > Q3 0 0.7 0
>> > Q4 4 4.7 12.45
>> > Q5 1.5 2 12.1
>> > Q6 0. 0.65 0.65 0 .65 .65
>> > Q7 0 0.35 2.7 0 0.36 2.7
>> > Q8 0 0.65 2.2 0 .65 2.2
>> > Q9 3.7 2.1 10.95
>> > Q10 2.7 3.5 6.8
>> > Q11 3.94 3.5 7.55 3.9 3.7 7.4
>> > Q12 3.3 3.8 7.45 3.3 3.8 7.5
>> > Q13 4 4.5 9.5 4 4.5 9.4
>> > Q14 0 0.63 0.465
>> > Q15 2.15 2.81 9.1
>> > Q16 3.4 NOT MEASURED 7.2 3.5 3.5 7.2
>> > Q17 4 4.65 12.85
>> > Q18 3.7 3.5 7.5 3.7 3.4 7.2
>> > Q19 3.7 3 7.6
>> > Q20 3.6 2.9 7.3
>> > Q21 2.10 2.1 9
>> > Q22 2.5 3.2 10.3
>> >
>> >
>> > Thank you for any help or advice.
>> >

>> > Kind regards
>> >
>> > 73
>> > Carl
>> > DA6TEC
>> > (British but living and working in DL)
>> >
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
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> ------------------------------------
>
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1521. Re: [mkars80] Thanks for all the advice/tips

Yahoo group: mkars80
Date: 2010-01-31 20:59:18 UTC
From: Steve Drury
Topic: 1518 Message: 1521

Drilling template is here:

http://www.radio-kits.co.uk/radio-related/MKARS80/MKARS80_Drilling_Template.pdf

Front panel is here:

http://www.radio-kits.co.uk/radio-related/MKARS80/Front_Panel.pdf

Glad its working now.

Steve G6ALU

----- Original Message -----
From: "robpegsuk" <robpegs@...>
To: <mkars80@...>
Sent: Sunday, January 31, 2010 6:52 PM
Subject: [mkars80] Thanks for all the advice/tips

> Many thanks for the help and tips, My mkars80 is now up and running and
> had my first on air QSO, Just one thing I cant seem to find "the template
> for the case". I have looked in the file section ,but may of missed it.
> can you point me in the right direction..
> Rob M0TFO
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1522. RE: [mkars80] Thanks for all the advice/tips

Yahoo group: mkars80
Date: 2010-01-31 21:13:27 UTC
From: Phil
Topic: 1518 Message: 1522

Hi Rob,

After you print out the template just check that it has been printed true to size. My first attempt was slightly smaller than it should have been, luckily I checked it first otherwise all the holes would have been in the wrong place.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Peter Fraser
Sent: 31 January 2010 20:05
To: mkars80@...
Subject: Re: [mkars80] Thanks for all the advice/tips

Hi Rob

http://www.radio-kits.co.uk/mkars80page.html is where you will find the drilling template. (second item in the download list)

Take care to align the top and side carefully as I made a real mess of mine by not getting that right. See
http://vk3zpf.blogspot.com/2009/12/mkars80-update-5.html

Regards

Peter VK3ZPF
http://vk3zpf.blogspot.com

----- Original Message -----
From: robpegsuk
To: mkars80@...
Sent: Monday, February 01, 2010 5:52 AM
Subject: [mkars80] Thanks for all the advice/tips

Many thanks for the help and tips, My mkars80 is now up and running and had my first on air QSO, Just one thing I cant seem to find "the template for the case". I have looked in the file section ,but may of missed it. can you point me in the right direction..
Rob M0TFO

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1523. Re: Low output power

Yahoo group: mkars80
Date: 2010-01-31 21:36:22 UTC
From: Jerome
Topic: 1509 Message: 1523

Has anyone else run across this problem ? I checked everything I can think of and everything checks out fine. I wonder if the IRF510 power transistor could be ant fault. Anyone have any ideas...

--- In mkars80@yahoogroups.co.uk, "Jerome" <w9tko@...> wrote:
>
> Hello all, Just finished my mkars80 and everything works great. The only question I have is how to increase the output power. I can only get 3.5 watts out and from what I read on this site everyone else is getting 6 watts out. Is there anything I should look for to increase the power ? Thanks Jerry
>

1524. Re: So close but so far! Please help me get my MKARS80 on air

Yahoo group: mkars80
Date: 2010-01-31 22:16:14 UTC
From: Carl
Topic: 1510 Message: 1524

Hey

I have run a length of equipment wire from the centre pin of the FT817 SO259. When I PTT from the MKARS80 there is a loud click on the tcvr FT817 (set to same freq at MKARS80), but after this short click there is no carrier, or modulation, I have tried 2 different electret modules (both recovered from working PC Type headsets). No power on the wattmeter either.

Staring at it whilst drinking a cup of tea at the moment. Not sure Jedi magic is going to work but I dont know what else to do now !!! hi hi

Carl

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> First don't worry about the high voltage on Q10 collector, this will depend
> on RF output.
>
> 305mA is a typical TX current with no audio so OK there.
>
> When first pushing the PTT you will normally see a quick "kick" of the power
> meter, this is probably a good sign as it shows most of the stages are
> "alive".
>
> Shorting B-E of Q3 shows the microphone amplifier is good so OK there.
>
> If you connect a piece of wire to the antenna input of your receiver and
> drape the wire near (BUT NOT TOUCHING any part of the MKARS80) can you hear
> any modulation? Rock the tuning backwards and forwards just in case its not
> on tune.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Carl" <da6tec@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Sunday, January 31, 2010 4:44 PM
> Subject: [mkars80] Re: So close but so far! Please help me get my MKARS80 on
> air
>
>
>
> > >
> > > Steve, Peter, all
> > >
> > > Hi thanks for your help. I am still battling away at trying to get the

> > radio on the air. I have looked through all the messages on the group and
> > followed the advice (not sure specifically which email to Peter you were
> > refering to but I think I have read everything!).
> >
> > I note you suggested in one post shorting out Q3 Base and Emmiter whilst
> > pressing the PTT with mic connected. As warned I did get massive
> > feedback - white noise, loud hum and what sounded like faint music front a
> > broadcast station.
> >
> > I have checked and doubled checked the transistors. As you suspected, I
> > had taken a couple of measurements off the wrong pins! Now that is sorted
> > out the only reading that worries me is the Collector on Q10 which is
> > measured at 6.8V rather than the 3.8V listed in the manual. (I just
> > checked the 510 again and its' pins are at the correct voltages on rx and
> > tx).
> >
> > I had followed the setting-up of the PA bias as it states in the manual.
> > It was drawing 260mA on tx (110mA in rx) with R2 fully ACW and no mic
> > connnected. I increase it to 305mA by adjusting R2 slightly CW.
> >
> > Setting up the mixer has been problematic. On PTT my wattmeter needle
> > swings to the right in the 1W vicinity before returning to the zero mark
> > in a fraction of a second. No carrier is detected on a nearby receiver.
> > With an electret microphone insert connected there is no audio being
> > picked up by the mic. Setting up the mixer is difficult because other
> > than the initial spike when flicking the PTT to tx there is no carrier
> > against which to adjust power.
> >
> > I have resoldered T5 to try and iron out a fault there.
> >
> > The red led modulator light remains fully lit. Even when an electret mic
> > is connected (tried 3 inserts now) the red LED does not extinguish or
> > flicker.
> >
> > I am now well and truly stumped! ideas?
> >
> > Thanks in advance for any help anyone can offer,
> >
> > Carl
> > DA6TEC
> >
> >
> >
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Carl,
> >>
> >> This could be the result of poor mixer balance - see my email to Peter to

> >> see methods of adjustment; do not adjust with a microphone connected. If
> >> you
> >> can't get balance (that is zero output power) check the transformer T5 is
> >> soldered properly.
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> >> Looking at your voltage readings I suspect you have got confused with the
> >> transistor pinouts. There are 3 differing types of pinout used with the
> >> ZTX615, BC series and MPSH10.
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> >> Steve
> >>
> >> ----- Original Message -----
> >> From: "Carl" <da6tec@>
> >> To: <mkars80@...>
> >> Sent: Sunday, January 31, 2010 9:13 AM
> >> Subject: [mkars80] So close but so far! Please help me get my MKARS80 on
> >> air
> >>
> >>
> >> > Good morning group!
> >> >
> >> > (from Carl, DA6TEC // da6tec@)
> >> >
> >> > Thank you to Steve for help over the last few days, now 90% complete in
> >> > building the MKARS80. I thought it better to ask these questions and
> >> > request help from you kind people on the yahoo group!
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> >> > transistor voltage measurements to be different to that expected from
> >> > voltage tables in the manual.
> >> >
> >> > In outline:
> >> > - Kit built, rcvr working very well (listening to west coast US on dx
> >> > part
> >> > of band last night).
> >> > - LCD working fine and aligned.
> >> > - tuning range set up
> >> > - All component placement checked and checked for solder blobs and dry
> >> > joints (althouh I am not an expert!)
> >> >
> >> > Some figures:
> >> > - current drawn on rx is 110mA at 13.8V DC
> >> > - current drawn on tx was 240mA at 13.8v and noww adjusted to 285mA
> >> > using
> >> > R2 and the bias procedure in the manual
> >> > - R59 and C103 adjusted whilst tx into 100W dummy load but seems to
> >> > have
> >> > little effect on power output

> >> >
> >> > Problem:
> >> >
> >> > When I PTT 'on' I output a high pitched tone at 1.5 - 1.8W. There is
> >> > not
> >> > audio being picked up by the elecret microphone insert i am using
> >> > (tapping
> >> > it, speaking into it etc show now difference in output power or audio
> >> > received on an adjacent monitor tcvr)
> >> >
> >> > Of the measurements in the table below the most significant differences
> >> > comapred to the table in the manual are all on tx (figures in brackets
> >> > are
> >> > figures in manual, my measurements not in brackets):
> >> >
> >> > (I should add that I do not have a full RF lab here in the broom
> >> > cupboard!) I have a multimeter, RF probe, dummy load and a commercial
> >> > tcvr for reference (FT817) and a big mug of tea :)
> >> >
> >> > All on TX:
> >> > Q9
> >> > E=3.7V (2.4V)
> >> > B=2.1V (3.2V)
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> >> > Q10
> >> > C=6.8V (3.8V)
> >> >
> >> > Q20
> >> > E=3.6V (2.9V)
> >> > B=2.9V (3.7V)
> >> >
> >> > Q21
> >> > B=2.1V (2.8V)
> >> >
> >> >
> >> > Transistor Receive Transmit
> >> > Gate Drain Source Gate Drain Source
> >> > Q1 0 13.89 0
> >> >
> >> > Emitter Base Collector Emitter Base Collector
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> >> > Q7 0 0.35 2.7 0 0.36 2.7
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> >> >
> >> >
> >> > Thank you for any help or advice.
> >> >
> >> > Kind regards
> >> >
> >> > 73
> >> > Carl
> >> > DA6TEC
> >> > (British but living and working in DL)
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> >> > ------------------------------------
> >> >
> >> > Yahoo! Groups Links
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1525. Re: [mkars80] Re: So close but so far! Please help me get my MKARS80 on air

Yahoo group: mkars80
Date: 2010-01-31 22:20:28 UTC
From: Steve Drury
Topic: 1510 Message: 1525

I will have a think Carl, nothing comes to mind at the moment... the click (and transient power indication) indicates to me that there is an RF path from the mixer to output and you know the microphone and amp is OK because you get audio feedback if you disable the mute transistor.

Any ideas anyone?

Steve G6ALU

----- Original Message -----
From: "Carl" <da6tec@...>
To: <mkars80@...>
Sent: Sunday, January 31, 2010 10:16 PM
Subject: [mkars80] Re: So close but so far! Please help me get my MKARS80 on air

> Hey
>
> I have run a length of equipment wire from the centre pin of the FT817
> SO259. When I PTT from the MKARS80 there is a loud click on the tcvr
> FT817 (set to same freq at MKARS80), but after this short click there is
> no carrier, or modulation, I have tried 2 different electret modules (both
> recovered from working PC Type headsets). No power on the wattmeter
> either.
>
> Staring at it whilst drinking a cup of tea at the moment. Not sure Jedi
> magic is going to work but I dont know what else to do now !!! hi hi
>
>
>
>
>
>
>
> Carl
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> First don't worry about the high voltage on Q10 collector, this will
>> depend
>> on RF output.
>>
>> 305mA is a typical TX current with no audio so OK there.
>>
>> When first pushing the PTT you will normally see a quick "kick" of the

>> power
>> meter, this is probably a good sign as it shows most of the stages are
>> "alive".
>>
>> Shorting B-E of Q3 shows the microphone amplifier is good so OK there.
>>
>> If you connect a piece of wire to the antenna input of your receiver and
>> drape the wire near (BUT NOT TOUCHING any part of the MKARS80) can you
>> hear
>> any modulation? Rock the tuning backwards and forwards just in case its
>> not
>> on tune.
>>
>> Steve G6ALU
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>> ----- Original Message -----
>> From: "Carl" <da6tec@...>
>> To: <mkars80@...>
>> Sent: Sunday, January 31, 2010 4:44 PM
>> Subject: [mkars80] Re: So close but so far! Please help me get my MKARS80
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>> air
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>>
>> >
>> >
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>> > Hi thanks for your help. I am still battling away at trying to get the
>> > radio on the air. I have looked through all the messages on the group
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>> > were
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>> >> > Q11 3.94 3.5 7.55 3.9 3.7 7.4
>> >> > Q12 3.3 3.8 7.45 3.3 3.8 7.5
>> >> > Q13 4 4.5 9.5 4 4.5 9.4
>> >> > Q14 0 0.63 0.465
>> >> > Q15 2.15 2.81 9.1
>> >> > Q16 3.4 NOT MEASURED 7.2 3.5 3.5 7.2
>> >> > Q17 4 4.65 12.85
>> >> > Q18 3.7 3.5 7.5 3.7 3.4 7.2
>> >> > Q19 3.7 3 7.6
>> >> > Q20 3.6 2.9 7.3
>> >> > Q21 2.10 2.1 9
>> >> > Q22 2.5 3.2 10.3
>> >> >
>> >> >
>> >> > Thank you for any help or advice.
>> >> >
>> >> > Kind regards
>> >> >
>> >> > 73
>> >> > Carl
>> >> > DA6TEC
>> >> > (British but living and working in DL)
>> >> >
>> >> >
>> >> >
>> >> > ------------------------------------
>> >> >
>> >> > Yahoo! Groups Links
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> Yahoo! Groups Links
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1526. Re: [mkars80] Re: Low output power

Yahoo group: mkars80
Date: 2010-01-31 22:22:45 UTC
From: Steve Drury
Topic: 1509 Message: 1526

If you have a 'scope check to see if the waveform on the drain of the output transistor approaches ground - probably a volt or two?... does the LED flicker off? If yes to these questions then check the components in the LPF, number of turns on the coils etc.

Steve G6ALU

----- Original Message -----
From: "Jerome" <w9tko@...>
To: <mkars80@...>
Sent: Sunday, January 31, 2010 9:36 PM
Subject: [mkars80] Re: Low output power

> Has anyone else run across this problem ? I checked everything I can think
> of and everything checks out fine. I wonder if the IRF510 power transistor
> could be ant fault. Anyone have any ideas...
>
>
> --- In mkars80@..., "Jerome" <w9tko@...> wrote:
>>
>> Hello all, Just finished my mkars80 and everything works great. The only
>> question I have is how to increase the output power. I can only get 3.5
>> watts out and from what I read on this site everyone else is getting 6
>> watts out. Is there anything I should look for to increase the power ?
>> Thanks Jerry
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

1527. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-01 00:25:53 UTC
From: Jerome
Topic: 1509 Message: 1527

Steve, I do not have a scope but I checke the coils and ever thing
looks good there. Yes, the LED does flicker and I get vary good reports on the air.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> If you have a 'scope check to see if the waveform on the drain of the output
> transistor approaches ground - probably a volt or two?... does the LED
> flicker off? If yes to these questions then check the components in the LPF,
> number of turns on the coils etc.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Jerome" <w9tko@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Sunday, January 31, 2010 9:36 PM
> Subject: [mkars80] Re: Low output power
>
>
> > Has anyone else run across this problem ? I checked everything I can think
> > of and everything checks out fine. I wonder if the IRF510 power transistor
> > could be ant fault. Anyone have any ideas...
> >
> >
> > --- In mkars80@..., "Jerome" <w9tko@> wrote:
> >>
> >> Hello all, Just finished my mkars80 and everything works great. The only
> >> question I have is how to increase the output power. I can only get 3.5
> >> watts out and from what I read on this site everyone else is getting 6
> >> watts out. Is there anything I should look for to increase the power ?
> >> Thanks Jerry
> >>
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

1528. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-01 07:46:20 UTC
From: martienrijssemus
Topic: 1509 Message: 1528

Hello Jerry,

Just to make sure: what is your supply voltage when transmitting? My unit gives exactly 5 Watts (measured with a 1GHz scope at a 50 Ohm dummyload) but this ofcourse reduces when the supply voltage drops below 13,8V.

73

Martien PA4H

1529. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-01 12:11:53 UTC
From: Jerome
Topic: 1509 Message: 1529

Hello Martien,
My voltage is 13.1v and I'm using a 12 amp power supply. Do you think I should run it at a high voltage ?

--- In mkars80@yahoogroups.co.uk, "martienrijssemus" <martien.rijssemus@...> wrote:
>
> Hello Jerry,
>
> Just to make sure: what is your supply voltage when transmitting? My unit gives exactly 5 Watts (measured with a 1GHz scope at a 50 Ohm dummyload) but this ofcourse reduces when the supply voltage drops below 13,8V.
>
> 73
>
> Martien PA4H
>

1530. huff and puff on 3.7750 not locking

Yahoo group: mkars80
Date: 2010-02-01 12:17:51 UTC
From: mark
Topic: 1530 Message: 1530

Hi Steve as the photos show the mk2 is coming along very well. Have you got a pic that will lock the huff and puff on 3.7750 MHz .
If you have one programmed I could do with one. I cant program the pic chips here (would not now where to start) so if you now of one can you let me now the cost or where I could get hold of one all the best from Mark 2w0jmk

1531. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-01 14:48:49 UTC
From: martienrijssemus
Topic: 1509 Message: 1531

Hello Jerry,

Why dont you give it a try, cranck up the voltage to 14V and see if you can get it up to 5 Watts? Another possible cause: some powersupplies create problems when there are RF fields nearby. Did you check the voltage and the curent when transmitting (loud whistle in your microphone)? Last question, and again just to be sure, how accurate can you test the output power at these relatively low levels?

73,

Martien PA4H

> Hello Martien,
> My voltage is 13.1v and I'm using a 12 amp power supply. Do you think I should run it at a high voltage ?

1532. Re: [mkars80] Re: Low output power

Yahoo group: mkars80
Date: 2010-02-01 14:54:56 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1509 Message: 1532

The "standard" voltage is 13.8V.

On 01-Feb-10 12:11, Jerome wrote:
>
>
> Hello Martien,
> My voltage is 13.1v and I'm using a 12 amp power supply. Do you think I should run it at a high voltage ?

1533. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-01 16:00:15 UTC
From: Jerome
Topic: 1509 Message: 1533

I did try with another power supply at 13.8v and the results was the same. I also used two different meter with low power settings and the read adout the same. One of the meters is digital and one is anolog.

--- In mkars80@..., Nigel Gunn G8IFF/W8IFF <nigel@...> wrote:
>
> The "standard" voltage is 13.8V.
>
> On 01-Feb-10 12:11, Jerome wrote:
> >
> >
> > Hello Martien,
> > My voltage is 13.1v and I'm using a 12 amp power supply. Do you think I should run it at a high voltage ?
>

1534. Re: [mkars80] Re: Low output power

Yahoo group: mkars80
Date: 2010-02-01 21:37:40 UTC
From: Steve Drury
Topic: 1509 Message: 1534

Jerome,

Do you have to speak loudly to get the 3W - normal speech around 6" from the microphone is normally sufficient. If you whistle VERY loudly you can't get above 3W? Does the LED stay off whilst whistling? What current does it draw whilst whistling?

I'm trying to determine where the problem is.

Steve G6ALU

----- Original Message -----
From: "Jerome" <w9tko@...>
To: <mkars80@...>
Sent: Monday, February 01, 2010 4:00 PM
Subject: [mkars80] Re: Low output power

>
> I did try with another power supply at 13.8v and the results was the same.
> I also used two different meter with low power settings and the read adout
> the same. One of the meters is digital and one is anolog.
>
>
>
> --- In mkars80@..., Nigel Gunn G8IFF/W8IFF <nigel@...>
> wrote:
>>
>> The "standard" voltage is 13.8V.
>>
>> On 01-Feb-10 12:11, Jerome wrote:
>> >
>> >
>> > Hello Martien,
>> > My voltage is 13.1v and I'm using a 12 amp power supply. Do you
>> > think I should run it at a high voltage ?
>>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

1535. Re: [mkars80] huff and puff on 3.7750 not locking

Yahoo group: mkars80
Date: 2010-02-01 21:40:20 UTC
From: Steve Drury
Topic: 1530 Message: 1535

Hi Mark,

This bug is still on my to-do list - I will bring it to the top and let you know when its sorted.

Steve G6ALU

----- Original Message -----
From: "mark" <mw3hqt@...>
To: <mkars80@...>
Sent: Monday, February 01, 2010 12:17 PM
Subject: [mkars80] huff and puff on 3.7750 not locking

> Hi Steve as the photos show the mk2 is coming along very well. Have you
> got a pic that will lock the huff and puff on 3.7750 MHz .
> If you have one programmed I could do with one. I cant program the pic
> chips here (would not now where to start) so if you now of one can you let
> me now the cost or where I could get hold of one all the best from Mark
> 2w0jmk
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

1536. Re: huff and puff on 3.7750 not locking

Yahoo group: mkars80
Date: 2010-02-01 21:45:49 UTC
From: mark
Topic: 1530 Message: 1536

Hi Steve thanks for the reply I have to admit it's doing my head in hi hi.
I acquired a 10k 10 turn pot tonight in my local club and I must say it makes hell of a difference in tuning the radio.
Thanks for your time Steve all the best from mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Mark,
>
> This bug is still on my to-do list - I will bring it to the top and let you
> know when its sorted.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "mark" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Monday, February 01, 2010 12:17 PM
> Subject: [mkars80] huff and puff on 3.7750 not locking
>
>
> > Hi Steve as the photos show the mk2 is coming along very well. Have you
> > got a pic that will lock the huff and puff on 3.7750 MHz .
> > If you have one programmed I could do with one. I cant program the pic
> > chips here (would not now where to start) so if you now of one can you let
> > me now the cost or where I could get hold of one all the best from Mark
> > 2w0jmk
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
>

1537. Re: [mkars80] Re: huff and puff on 3.7750 not locking

Yahoo group: mkars80
Date: 2010-02-01 21:49:13 UTC
From: Steve Drury
Topic: 1530 Message: 1537

Sorry Mark, I guess that must be a popular frequency for you?

Steve

----- Original Message -----
From: "mark" <mw3hqt@...>
To: <mkars80@...>
Sent: Monday, February 01, 2010 9:45 PM
Subject: [mkars80] Re: huff and puff on 3.7750 not locking

> Hi Steve thanks for the reply I have to admit it's doing my head in hi hi.
> I acquired a 10k 10 turn pot tonight in my local club and I must say it
> makes hell of a difference in tuning the radio.
> Thanks for your time Steve all the best from mark 2w0jmk
>
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hi Mark,
>>
>> This bug is still on my to-do list - I will bring it to the top and let
>> you
>> know when its sorted.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "mark" <mw3hqt@...>
>> To: <mkars80@...>
>> Sent: Monday, February 01, 2010 12:17 PM
>> Subject: [mkars80] huff and puff on 3.7750 not locking
>>
>>
>> > Hi Steve as the photos show the mk2 is coming along very well. Have you
>> > got a pic that will lock the huff and puff on 3.7750 MHz .
>> > If you have one programmed I could do with one. I cant program the pic
>> > chips here (would not now where to start) so if you now of one can you
>> > let
>> > me now the cost or where I could get hold of one all the best from Mark
>> > 2w0jmk
>> >
>> >
>> >
>> >

>> > ------------------------------------
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>> > Yahoo! Groups Links
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>
> Yahoo! Groups Links
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1538. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-01 22:23:25 UTC
From: Jerome
Topic: 1509 Message: 1538

Steve,

It draws 1.18 amps on a loud whistle and the LED does go out.
I can get 4 watts out on a vary loud whistle and when I speak into the mic at 6" I have to speak vary loud to get 3.5 watts out. I have tried 3 different mics and the one I use seems to work the best. I get vary good audio reports with it. Jerry

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Jerome,
>
> Do you have to speak loudly to get the 3W - normal speech around 6" from the
> microphone is normally sufficient. If you whistle VERY loudly you can't get
> above 3W? Does the LED stay off whilst whistling? What current does it draw
> whilst whistling?
>
> I'm trying to determine where the problem is.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Jerome" <w9tko@...>
> To: <mkars80@....uk>
> Sent: Monday, February 01, 2010 4:00 PM
> Subject: [mkars80] Re: Low output power
>
>
> >
> > I did try with another power supply at 13.8v and the results was the same.
> > I also used two different meter with low power settings and the read adout
> > the same. One of the meters is digital and one is anolog.
> >
> >
> >
> > --- In mkars80@..., Nigel Gunn G8IFF/W8IFF <nigel@>
> > wrote:
> >>
> >> The "standard" voltage is 13.8V.
> >>
> >> On 01-Feb-10 12:11, Jerome wrote:
> >> >
> >> >
> >> > Hello Martien,
> >> > My voltage is 13.1v and I'm using a 12 amp power supply. Do you
> >> > think I should run it at a high voltage ?

> >>
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

1539. Re: huff and puff on 3.7750 not locking

Yahoo group: mkars80
Date: 2010-02-01 23:07:36 UTC
From: mark
Topic: 1530 Message: 1539

Yes Steve I do frequent the frequency quite often
Mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Sorry Mark, I guess that must be a popular frequency for you?
>
> Steve
>
> ----- Original Message -----
> From: "mark" <mw3hqt@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Monday, February 01, 2010 9:45 PM
> Subject: [mkars80] Re: huff and puff on 3.7750 not locking
>
>
> > Hi Steve thanks for the reply I have to admit it's doing my head in hi hi.
> > I acquired a 10k 10 turn pot tonight in my local club and I must say it
> > makes hell of a difference in tuning the radio.
> > Thanks for your time Steve all the best from mark 2w0jmk
> >
> >
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >>
> >> Hi Mark,
> >>
> >> This bug is still on my to-do list - I will bring it to the top and let
> >> you
> >> know when its sorted.
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "mark" <mw3hqt@>
> >> To: <mkars80@...>
> >> Sent: Monday, February 01, 2010 12:17 PM
> >> Subject: [mkars80] huff and puff on 3.7750 not locking
> >>
> >>
> >> > Hi Steve as the photos show the mk2 is coming along very well. Have you
> >> > got a pic that will lock the huff and puff on 3.7750 MHz .
> >> > If you have one programmed I could do with one. I cant program the pic
> >> > chips here (would not now where to start) so if you now of one can you

> >> > let
> >> > me now the cost or where I could get hold of one all the best from Mark
> >> > 2w0jmk
> >> >
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1540. Fan assisted mkarsS80

Yahoo group: mkars80
Date: 2010-02-01 23:27:58 UTC
From: zip
Topic: 1540 Message: 1540

Steve,

Just to give you an update, since I've modified my mkars80 to a turbo assisted model (added a fan inside the std case), its frequency is now completely stable. I set the frequency up at power up and 30 minutes later on digi mode (full duty cycle) the frequency has not changed and also there is no frequency drift while listening to my own transmissions.

There is another positive side affect of the fan and that is, as there is no audio because it's fed into an isolation transformer for the PC, one can hear a pleasant purr from the fan to let me know that it's powered up.

This is my second venture into the world of RF and since I've been on air using the mkars80 which has been about two or three weeks for a couple of hours in the evening using it in digi mode with my very inefficient 15m long wire, my mkars80 has done the business. I've had contacts in Luxemburg, Netherlands, Belgium and of course the obligatory Germany. When the weather permits I will be increasing my long wire to ½ wave, who knows how far your transceiver design will get me.

I would love to be able to show you my first venture into RF which was about 30 years ago, but alas to say Dave (G3ZPA) hasn't any photos. But I will say it was slightly more powerful that a few watts and I am here to be able to say, I was not inside when it was powered up.

I would just like to congratulate you on your superb design for a low cost 80M transceiver, in my opinion it's worth every penny of the 50 quid.

If anyone ventures into BPSK-31 on 80M using an mkars80 of course, give me a call, I'm normally on between 17.00 ☐ 18.00 & 20.00 ☐ 21.00.

Phil
M6ETC

1541. Build complete....

Yahoo group: mkars80
Date: 2010-02-02 01:48:46 UTC
From: a_strong@btopenworld.com
Topic: 1541 Message: 1541

I finished assembling my MKARS80 kit yesterday, 8 days to the day after placing the order with Steve. Total build time about 30 hours, which included metering every component before fitting. The coils were very time consuming, partially due geriatric fingers and eyes but also an ill-timed telephone call from an ex-friend. The set worked first time and the setting up was a piece of cake, but I do have a decent scope and frequency meter.

Just two observations, the receiver audio output is quite low on the two speakers that I tried, both 8 ohms but adequate on headphones. I wonder if this is normal or just a problem with my build? Would replacing the LM386-1 with an LM386-4 help?

2. - I placed three resistors wrongly by confusing their respective tick-boxes. Personally I would prefer either, the tick box to the left of the the descriptive text, or the descriptive text to be right justified so that it is close to the tick-box. However these mistakes were discovered very quickly, well before switch on time.

Many thanks to Steve for designing and marketing an affordable little set that is truly portable.

Tomorrow is metal bashing day!

Alan G3WXI

1542. Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-02-02 03:09:42 UTC
From: vk2jdp
Topic: 1453 Message: 1542

Steve,

Re: 40m version

Have you had time to look at the mute issue yet? If not, I'd be happy to order a kit (with the different xtals & program) and give it a try myself.

BTW I have muted LM386s before by just injecting DC into pin 2 (the inverting input). It still gives a bit of a 'plop' but this can be controlled with an RC network i.e. resistor from TX+ to cap, resistor from pin 2 to junction of first resistor and cap. Other side of cap to gnd. I used this method on a previous QRP TXCVR.

The credit card is poised...

PS I'll probably take my MKARS80 to the Wyong Field Day to see what interest I can generate. This is the biggest hamfest event around here.

--- In mkars80@..., "vk2jdp" <jonpoint@...> wrote:
>
> Steve,
>
> If you have some luck (or not), I'll be a guinea pig (can't be any worse than a teenager's cooking...)!
>
> I suggest the J174 for a start, but if the 'on' resistance is too high, maybe you can suggest a better alternative.
>
> Either way, let me know and I'll go ahead and order a kit.
>
> Regards,
> Jon
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Its likely the pop could be solved with a fet in place of the mute
> > transistor and with the addition of a "bleed" resistor to get rid of any DC
> > component - I will investigate and get back to you in a few days. If
> > successful I will be looking for a Guinea pig!
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "vk2jdp" <jonpoint@>
> > To: <mkars80@...>
> > Sent: Friday, January 15, 2010 6:03 AM
> > Subject: [mkars80] Re: Building my mkars80

> >
> >
> > Steve,
> >
> > OK then, is is possible to order the kit with the xtals and program, or at
> > least the program? It would be nice to get at least the same brand/style of
> > xtals so I don't have to re-align the filter. I would be happy to try and
> > 'stop the pop' with the speaker ;-)
> >
> > Might just tack a J174 FET across the LM386 input and drive it from the TX+,
> > with an RC network for a start?
> >
> > I have been holding off ordering one until now. If the program will work and
> > I can get it, I'm sold ;-) If you want to just do a standard kit but with
> > the IC and xtals as extras, I'll do that instead. Saves ripping a kit apart.
> > Please let me know.
> >
> > Regards,
> > Jon
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > I already have an ammended program so no problem there - the one I have is
> > > for 12MHz crystals.
> > >
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "vk2jdp" <jonpoint@>
> > > To: <mkars80@...>
> > > Sent: Wednesday, January 13, 2010 11:32 PM
> > > Subject: [mkars80] Re: Building my mkars80
> > >
> > >
> > > I'm keen to get something working on 40m. I was going to build my first
> > > one
> > > as 40m but decided to try one 'proper' first. In Oz, we are always
> > > battling
> > > lightning crashes on 80, and 40 works better for daytime too.
> > >
> > > I have decided to just buy another kit, and try a few things. The 2 things
> > > I
> > > need to know are, what about 13.5MHz as a better IF? Farnell has these
> > > crystals quite cheap. Secondly, what am I going to do about the program to
> > > get it to work?
> > >
> > > I assume that all of the timing for frequency display would change. The
> > > VFO
> > > can stay as-is. The huff 'n' puff lock points would open up a bit but no
> > > problem. The real problem is that I have no programmer or experience in

> > > these things unfortunately.
> > >
> > > That's what you get for being a boat-anchorist Hi Hi ;-)
> > >
> > > Maybe I could ask Steve on a bended knee to modify a program for me -
> > > obviously at a more suitable time? It will take a little time to build the
> > > unit and get the hardware ready anyway ;-)
> > >
> > > Regards,
> > >
> > > Jon
> > >
> > > --- In mkars80@..., "Phil" <phil-yah@> wrote:
> > > >
> > > > I understand, I have to prioritise too as work get in my way.
> > > >
> > > > But getting sight of your marked up drawing would do me.
> > > >
> > > > Phil
> > > >
> > > > -----Original Message-----
> > > > From: mkars80@... [mailto:mkars80@....uk] On
> > > > Behalf
> > > > Of Steve Drury
> > > > Sent: 12 January 2010 20:23
> > > > To: mkars80@...
> > > > Subject: Re: [mkars80] Re: Building my mkars80
> > > >
> > > > I have a marked up drawing and the modified radio - I have little time
> > > > and
> > > > try to prioritise things so haven't quite got to do it yet!
> > > >
> > > > Steve
> > > >
> > > > ----- Original Message -----
> > > > From: "Phil" <phil-yah@>
> > > > To: <mkars80@...>
> > > > Sent: Tuesday, January 12, 2010 8:17 PM
> > > > Subject: RE: [mkars80] Re: Building my mkars80
> > > >
> > > >
> > > > Steve,
> > > >
> > > > That's a shame, but as I was looking to us it for TX only on 40m, do you
> > > > have a list of the mods needed?
> > > >
> > > > Phil
> > > >
> > > > -----Original Message-----
> > > > From: mkars80@... [mailto:mkars80@...] On

> > > > Behalf
> > > > Of Steve Drury
> > > > Sent: 12 January 2010 19:59
> > > > To: mkars80@...
> > > > Subject: Re: [mkars80] Re: Building my mkars80
> > > >
> > > > Phil,
> > > >
> > > > The 40M version wasn't very successful based on the MKARS80 PCB -
> > > > electrically it worked OK but had a loud pop through the speaker on TX
> > > > to
> > > > RX
> > > >
> > > > and RX to TX transitions.
> > > >
> > > > For the time being it has been shelved.
> > > >
> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----
> > > > From: "zip" <phil-yah@>
> > > > To: <mkars80@....uk>
> > > > Sent: Monday, January 11, 2010 9:48 PM
> > > > Subject: [mkars80] Re: Building my mkars80
> > > >
> > > >
> > > > Steve,
> > > >
> > > > I believe that you are working on 40m version / modifications, have you
> > > > any
> > > > timescales for when it will be available?
> > > >
> > > > Phil
> > > >
> > > >
> > > > --- In mkars80@..., "Phil" <phil-yah@> wrote:
> > > > >
> > > > > Steve,
> > > > >
> > > > > In the dim and distant past I work for a company that made coils for
> > > > > the
> > > > > GPO/BT and the girls used to solder the coils using a No.9 bit. But
> > > > > they
> > > > > were like lightening when they soldered them, when I tried a No.9 the
> > > > > solder
> > > > > vaporised.
> > > > >
> > > > > I have used wire wool in the past on thin copper before I got a No.8
> > > > > tip,
> > > > > how thin I really can't remember, but it must have been 28SWG or

> > > > > thinner.
> > > > > If
> > > > > my memory is correct I grabbed the copper wire in the wire wool and
> > > > > then
> > > > > pulled the copper wire through the wool, then tined the ends before
> > > > > soldering the coils in place. The thinner the wire the more genital
> > > > > you
> > > > > have
> > > > > to be with the pressure when squeezing.
> > > > >
> > > > > Phil
> > > > >
> > > > > -----Original Message-----
> > > > > From: mkars80@... [mailto:mkars80@...] On
> > > > > Behalf
> > > > > Of Steve Drury
> > > > > Sent: 03 January 2010 21:03
> > > > > To: mkars80@...
> > > > > Subject: Re: [mkars80] Building my mkars80
> > > > >
> > > > > Hi Phil,
> > > > >
> > > > > I've stated a number of times (on here) the importance of using a hot
> > > > > iron
> > > > > to remove the polyurethane coating from the enameled covered wire - I
> > > > > suspect there are few here with a Weller TCP iron - including me, I
> > > > > use
> > > > > a
> > > > > 25W Antex and find it works well. I've not tried wire wool, does it
> > > > > work
> > > > > OK
> > > > > on the very thin wire?
> > > > >
> > > > > Steve G6ALU
> > > > >
> > > > > ----- Original Message -----
> > > > > From: "Phil" <phil-yah@>
> > > > > To: <mkars80@...>
> > > > > Sent: Sunday, January 03, 2010 8:41 PM
> > > > > Subject: RE: [mkars80] Building my mkars80
> > > > >
> > > > >
> > > > > Steve,
> > > > >
> > > > > If I may offer two tips, first if you print out the drilling template,
> > > > > check
> > > > > it has been printed true to size before drilling.
> > > > > The second is if possible use a Weller soldering iron with a No.8 tip
> > > > > when
> > > > > you soldering the polyurethane coated copper wire i.e. the coils and

> > > > > you
> > > > > don't need remove the coating before soldering. If that's not possible
> > > > > suggest you use wire wool to remove the polyurethane prior to tinning
> > > > > /
> > > > > soldering.
> > > > >
> > > > > Phil
> > > > >
> > > > > -----Original Message-----
> > > > > From: mkars80@... [mailto:mkars80@...] On
> > > > > Behalf
> > > > > Of Steve Bell
> > > > > Sent: 02 January 2010 22:05
> > > > > To: mkars80@...
> > > > > Subject: Re: [mkars80] Building my mkars80
> > > > >
> > > > > I started my MKARS80 over the Christmas too, but have only fitted bags
> > > > > 1, 2 and 3. Now I'm tied up completing last years expenses for work
> > > > > and printing / mounting for my photography clubs competition next
> > > > > week, I've run out of free time. At least I've started, I've had the
> > > > > kit since the last MKARS rally.
> > > > >
> > > > > I can only echo Phil's comments, a first class kit and foolproof
> > > > > instructions.
> > > > >
> > > > > Steve
> > > > >
> > > > >
> > > > > On 2 Jan 2010, at 21:22, zip wrote:
> > > > >
> > > > > > Hi all,
> > > > > >
> > > > > > Having spent some 12 hours over Christmas building my mkars80, when
> > > > > > I applied power to it I was very disappointed only to find that it
> > > > > > worked first time.
> > > > > >
> > > > > > All I have to do now is to find a piece of wet string that I can run
> > > > > > down the length of the garden to connect it to.
> > > > > >
> > > > > > Being serious, excellent kit with high quality components and
> > > > > > unambiguous instructions, it gets my recommendations. All I've got
> > > > > > to do is sort out a ½ wave length antenna then I will be able to
> > > > > > make full use of it.
> > > > > >
> > > > > > 73s,
> > > > > >
> > > > > > Phil
> > > > > >
> > > > > >
> > > > > >

> > > > >
> > > > >
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> > > > > Yahoo! Groups Links
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> > Yahoo! Groups Links
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1543. Re: [mkars80] Fan assisted mkarsS80

Yahoo group: mkars80
Date: 2010-02-02 07:05:25 UTC
From: Steve Drury
Topic: 1540 Message: 1543

Thanks for the compliments Phil, sounds as though the little fan is doing the job then. The radio wasn't really designed for digi modes but as its "straight through" with little audio shaping I expect you get good results. I have left mine on receive for hours getting pictures off DRM on 3.733MHz.

I can guess what you original PA was.. I bet it wasn't homebrew!

Steve G6ALU

----- Original Message -----
From: "zip" <phil-yah@...>
To: <mkars80@...>
Sent: Monday, February 01, 2010 11:27 PM
Subject: [mkars80] Fan assisted mkarsS80

Steve,

Just to give you an update, since I've modified my mkars80 to a turbo assisted model (added a fan inside the std case), its frequency is now completely stable. I set the frequency up at power up and 30 minutes later on digi mode (full duty cycle) the frequency has not changed and also there is no frequency drift while listening to my own transmissions.

There is another positive side affect of the fan and that is, as there is no audio because it's fed into an isolation transformer for the PC, one can hear a pleasant purr from the fan to let me know that it's powered up.

This is my second venture into the world of RF and since I've been on air using the mkars80 which has been about two or three weeks for a couple of hours in the evening using it in digi mode with my very inefficient 15m long wire, my mkars80 has done the business. I've had contacts in Luxemburg, Netherlands, Belgium and of course the obligatory Germany. When the weather permits I will be increasing my long wire to ? wave, who knows how far your transceiver design will get me.

I would love to be able to show you my first venture into RF which was about 30 years ago, but alas to say Dave (G3ZPA) hasn't any photos. But I will say it was slightly more powerful that a few watts and I am here to be able to say, I was not inside when it was powered up.

I would just like to congratulate you on your superb design for a low cost 80M transceiver, in my opinion it's worth every penny of the 50 quid.

If anyone ventures into BPSK-31 on 80M using an mkars80 of course, give me a call, I'm normally on between 17.00 - 18.00 & 20.00 - 21.00.

Phil
M6ETC

Yahoo! Groups Links

1544. Re: [mkars80] Build complete....

Yahoo group: mkars80
Date: 2010-02-02 07:10:40 UTC
From: Steve Drury
Topic: 1541 Message: 1544

Hello Alan,

The audio output is normally cosidered to be very adequate - if you couldn't get any TX power I would expect a problem with one of the mixer transformers but as its working OK these are ruled out. It may be worth just checking the DC voltages on the transistors in the receive line just in case there is a problem there, its quite common to get solder bridges between C-E or B-E leads - the receiver still works but will be quiet.

On a reasonable antenna (G5RV, dipole etc) you will need to turn the RF gain back in the evening.

Steve G6ALU

----- Original Message -----
From: "a_strong@..." <A_Strong@...>
To: <mkars80@...>
Sent: Tuesday, February 02, 2010 1:48 AM
Subject: [mkars80] Build complete....

>I finished assembling my MKARS80 kit yesterday, 8 days to the day after
>placing the order with Steve. Total build time about 30 hours, which
>included metering every component before fitting. The coils were very time
>consuming, partially due geriatric fingers and eyes but also an ill-timed
>telephone call from an ex-friend. The set worked first time and the
>setting up was a piece of cake, but I do have a decent scope and frequency
>meter.
>
> Just two observations, the receiver audio output is quite low on the two
> speakers that I tried, both 8 ohms but adequate on headphones. I wonder if
> this is normal or just a problem with my build? Would replacing the
> LM386-1 with an LM386-4 help?
>
> 2. - I placed three resistors wrongly by confusing their respective
> tick-boxes. Personally I would prefer either, the tick box to the left of
> the the descriptive text, or the descriptive text to be right justified so
> that it is close to the tick-box. However these mistakes were discovered
> very quickly, well before switch on time.
>
> Many thanks to Steve for designing and marketing an affordable little set
> that is truly portable.
>
> Tomorrow is metal bashing day!
>
> Alan G3WXI
>

>
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>
> Yahoo! Groups Links
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>

1545. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-02 08:01:25 UTC
From: martienrijssemus
Topic: 1509 Message: 1545

Jerry,

Mine draws the same peak current. Of course the 5 Watts is only in the peaks, so with a loud whistle. Average power when QSO-ing is much lower.Did you measure the power with a dummy load or did you use the antenna?

Martien PA4H

--- In mkars80@..., "Jerome" <w9tko@...> wrote:
>
> Steve,
>
> It draws 1.18 amps on a loud whistle and the LED does go out.
> I can get 4 watts out on a vary loud whistle and when I speak into the mic at 6" I have to speak vary loud to get 3.5 watts out. I have tried 3 different mics and the one I use seems to work the best. I get vary good audio reports with it. Jerry

1546. Re: Fan assisted mkarsS80

Yahoo group: mkars80
Date: 2010-02-02 08:12:25 UTC
From: martienrijssemus
Topic: 1540 Message: 1546

Hi Phil,

When the weather permits I will be increasing
my long wire to ½ wave, who knows how far your transceiver design will get me.

You be amazed! I am using a low hanging dipole (2 times 14 meter so actually too short) with open feeder and of course a tuner. Most stations I can hear on my MKARS80 I can also work, sometimes with amazing signal strength. Best DX so far: 1300km.

73

Martien PA4H

1547. Voltage indication is low...

Yahoo group: mkars80
Date: 2010-02-02 12:25:51 UTC
From: a_strong@btopenworld.com
Topic: 1547 Message: 1547

The LCD voltage display on my MKARS 80 consistently reads about 0.3 volts low. With an applied voltage of 13.8V (three different DVMs agree) the indicated voltage 13.5V. Can anyone tell me if this tolerance normal?

I have not found any similar questions about this in previous questions but that may be due to me not hitting on the right search keyword.

Alan G3WXI

1548. Re: Build complete....

Yahoo group: mkars80
Date: 2010-02-02 12:47:55 UTC
From: a_strong@btopenworld.com
Topic: 1541 Message: 1548

Hi Steve - many thanks, My aerial is not of the best, only a low level inverted "V" doublet resonant on about 20MHz. I will investigate. Very nice received audio quality however but still low even on a computer type headset.

The Mainline slomo drives arrived this morning so I am looking into how to fit those at the moment.

Alan

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hello Alan,
>
> The audio output is normally cosidered to be very adequate - if you couldn't
> get any TX power I would expect a problem with one of the mixer transformers
> but as its working OK these are ruled out. It may be worth just checking the
> DC voltages on the transistors in the receive line just in case there is a
> problem there, its quite common to get solder bridges between C-E or B-E
> leads - the receiver still works but will be quiet.
>
> On a reasonable antenna (G5RV, dipole etc) you will need to turn the RF gain
> back in the evening.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "a_strong@..." <A_Strong@...>
> To: <mkars80@...>
> Sent: Tuesday, February 02, 2010 1:48 AM
> Subject: [mkars80] Build complete....
>
>
> >I finished assembling my MKARS80 kit yesterday, 8 days to the day after
> >placing the order with Steve. Total build time about 30 hours, which
> >included metering every component before fitting. The coils were very time
> >consuming, partially due geriatric fingers and eyes but also an ill-timed
> >telephone call from an ex-friend. The set worked first time and the
> >setting up was a piece of cake, but I do have a decent scope and frequency
> >meter.
> >
> > Just two observations, the receiver audio output is quite low on the two
> > speakers that I tried, both 8 ohms but adequate on headphones. I wonder if
> > this is normal or just a problem with my build? Would replacing the
> > LM386-1 with an LM386-4 help?
> >
> > 2. - I placed three resistors wrongly by confusing their respective

> > tick-boxes. Personally I would prefer either, the tick box to the left of
> > the the descriptive text, or the descriptive text to be right justified so
> > that it is close to the tick-box. However these mistakes were discovered
> > very quickly, well before switch on time.
> >
> > Many thanks to Steve for designing and marketing an affordable little set
> > that is truly portable.
> >
> > Tomorrow is metal bashing day!
> >
> > Alan G3WXI
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

1549. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-02 12:58:46 UTC
From: Jerome
Topic: 1509 Message: 1549

Martien, I tested it on the antenna and on a dummy load and the output was the same. The antenns SWR is flat.

--- In mkars80@..., "martienrijssemus" <martien.rijssemus@...> wrote:
>
> Jerry,
>
> Mine draws the same peak current. Of course the 5 Watts is only in the peaks, so with a loud whistle. Average power when QSO-ing is much lower.Did you measure the power with a dummy load or did you use the antenna?
>
> Martien PA4H
>
> --- In mkars80@..., "Jerome" <w9tko@> wrote:
> >
> > Steve,
> >
> > It draws 1.18 amps on a loud whistle and the LED does go out.
> > I can get 4 watts out on a vary loud whistle and when I speak into the mic at 6" I have to speak vary loud to get 3.5 watts out. I have tried 3 different mics and the one I use seems to work the best. I get vary good audio reports with it. Jerry
>

1550. RE: [mkars80] Fan assisted mkarsS80

Yahoo group: mkars80
Date: 2010-02-02 21:07:54 UTC
From: Phil
Topic: 1540 Message: 1550

Now it wasn't homebrew,,,,,,,,, but did have copper water pipes wound as coils and steam was used, but to cool the bottles.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 02 February 2010 07:05
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] Fan assisted mkarsS80

Thanks for the compliments Phil, sounds as though the little fan is doing the job then. The radio wasn't really designed for digi modes but as its "straight through" with little audio shaping I expect you get good results. I have left mine on receive for hours getting pictures off DRM on 3.733MHz.

I can guess what you original PA was.. I bet it wasn't homebrew!

Steve G6ALU

----- Original Message -----
From: "zip" <phil-yah@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Monday, February 01, 2010 11:27 PM
Subject: [mkars80] Fan assisted mkarsS80

Steve,

Just to give you an update, since I've modified my mkars80 to a turbo assisted model (added a fan inside the std case), its frequency is now completely stable. I set the frequency up at power up and 30 minutes later on digi mode (full duty cycle) the frequency has not changed and also there is no frequency drift while listening to my own transmissions.

There is another positive side affect of the fan and that is, as there is no

audio because it's fed into an isolation transformer for the PC, one can hear a pleasant purr from the fan to let me know that it's powered up.

This is my second venture into the world of RF and since I've been on air using the mkars80 which has been about two or three weeks for a couple of hours in the evening using it in digi mode with my very inefficient 15m long

wire, my mkars80 has done the business. I've had contacts in Luxemburg, Netherlands, Belgium and of course the obligatory Germany. When the weather permits I will be increasing my long wire to ½ wave, who knows how far your transceiver design will get me.

I would love to be able to show you my first venture into RF which was about

30 years ago, but alas to say Dave (G3ZPA) hasn't any photos. But I will say

it was slightly more powerful that a few watts and I am here to be able to say, I was not inside when it was powered up.

I would just like to congratulate you on your superb design for a low cost 80M transceiver, in my opinion it's worth every penny of the 50 quid.

If anyone ventures into BPSK-31 on 80M using an mkars80 of course, give me a

call, I'm normally on between 17.00 - 18.00 & 20.00 - 21.00.

Phil
M6ETC

Yahoo! Groups Links

Yahoo! Groups Links

1551. RE: [mkars80] Re: Fan assisted mkarsS80

Yahoo group: mkars80
Date: 2010-02-02 21:19:02 UTC
From: Phil
Topic: 1540 Message: 1551

Martien,

You put my contacts to shame.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of martienrijssemus
Sent: 02 February 2010 08:12
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Fan assisted mkarsS80

Hi Phil,

When the weather permits I will be increasing
my long wire to ½ wave, who knows how far your transceiver design will get
me.

You be amazed! I am using a low hanging dipole (2 times 14 meter so actually
too short) with open feeder and of course a tuner. Most stations I can hear
on my MKARS80 I can also work, sometimes with amazing signal strength. Best
DX so far: 1300km.

73

Martien PA4H

Yahoo! Groups Links

1552. Re: [mkars80] Re: Building my mkars80

Yahoo group: mkars80
Date: 2010-02-02 22:23:06 UTC
From: Steve Drury
Topic: 1453 Message: 1552

Jon,
I investigated it again the other evening - problem originates from the colapsing RX 12V supply, it isn't muted properly as it is muted via the TX supply which is rising at the same time! I think it needs some simple logic from the PTT to clamp the audio before the relay throws.

I also tried a 2N7000 as mute but didn't work as well as a BC337.

Steve

----- Original Message -----
From: "vk2jdp" <jonpoint@...>
To: <mkars80@...>
Sent: Tuesday, February 02, 2010 3:09 AM
Subject: [mkars80] Re: Building my mkars80

Steve,

Re: 40m version

Have you had time to look at the mute issue yet? If not, I'd be happy to order a kit (with the different xtals & program) and give it a try myself.

BTW I have muted LM386s before by just injecting DC into pin 2 (the inverting input). It still gives a bit of a 'plop' but this can be controlled with an RC network i.e. resistor from TX+ to cap, resistor from pin 2 to junction of first resistor and cap. Other side of cap to gnd. I used this method on a previous QRP TXCVR.

The credit card is poised...

PS I'll probably take my MKARS80 to the Wyong Field Day to see what interest I can generate. This is the biggest hamfest event around here.

--- In mkars80@..., "vk2jdp" <jonpoint@...> wrote:
>
> Steve,
>
> If you have some luck (or not), I'll be a guinea pig (can't be any worse
> than a teenager's cooking...)!
>
> I suggest the J174 for a start, but if the 'on' resistance is too high,
> maybe you can suggest a better alternative.
>
> Either way, let me know and I'll go ahead and order a kit.
>
> Regards,

> Jon
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Its likely the pop could be solved with a fet in place of the mute
> > transistor and with the addition of a "bleed" resistor to get rid of any
> > DC
> > component - I will investigate and get back to you in a few days. If
> > successful I will be looking for a Guinea pig!
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "vk2jdp" <jonpoint@>
> > To: <mkars80@...>
> > Sent: Friday, January 15, 2010 6:03 AM
> > Subject: [mkars80] Re: Building my mkars80
> >
> >
> > Steve,
> >
> > OK then, is is possible to order the kit with the xtals and program, or
> > at
> > least the program? It would be nice to get at least the same brand/style
> > of
> > xtals so I don't have to re-align the filter. I would be happy to try
> > and
> > 'stop the pop' with the speaker ;-)
> >
> > Might just tack a J174 FET across the LM386 input and drive it from the
> > TX+,
> > with an RC network for a start?
> >
> > I have been holding off ordering one until now. If the program will work
> > and
> > I can get it, I'm sold ;-) If you want to just do a standard kit but
> > with
> > the IC and xtals as extras, I'll do that instead. Saves ripping a kit
> > apart.
> > Please let me know.
> >
> > Regards,
> > Jon
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > I already have an ammended program so no problem there - the one I
> > > have is
> > > for 12MHz crystals.
> > >

> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "vk2jdp" <jonpoint@>
> > > To: <mkars80@...>
> > > Sent: Wednesday, January 13, 2010 11:32 PM
> > > Subject: [mkars80] Re: Building my mkars80
> > >
> > >
> > > I'm keen to get something working on 40m. I was going to build my
> > > first
> > > one
> > > as 40m but decided to try one 'proper' first. In Oz, we are always
> > > battling
> > > lightning crashes on 80, and 40 works better for daytime too.
> > >
> > > I have decided to just buy another kit, and try a few things. The 2
> > > things
> > > I
> > > need to know are, what about 13.5MHz as a better IF? Farnell has these
> > > crystals quite cheap. Secondly, what am I going to do about the
> > > program to
> > > get it to work?
> > >
> > > I assume that all of the timing for frequency display would change.
> > > The
> > > VFO
> > > can stay as-is. The huff 'n' puff lock points would open up a bit but
> > > no
> > > problem. The real problem is that I have no programmer or experience
> > > in
> > > these things unfortunately.
> > >
> > > That's what you get for being a boat-anchorist Hi Hi ;-)
> > >
> > > Maybe I could ask Steve on a bended knee to modify a program for me -
> > > obviously at a more suitable time? It will take a little time to build
> > > the
> > > unit and get the hardware ready anyway ;-)
> > >
> > > Regards,
> > >
> > > Jon
> > >
> > > --- In mkars80@..., "Phil" <phil-yah@> wrote:
> > > >
> > > > I understand, I have to prioritise too as work get in my way.
> > > >
> > > > But getting sight of your marked up drawing would do me.
> > > >

> > > > Phil
> > > >
> > > > -----Original Message-----
> > > > From: mkars80@... [mailto:mkars80@...]
> > > > On
> > > > Behalf
> > > > Of Steve Drury
> > > > Sent: 12 January 2010 20:23
> > > > To: mkars80@...
> > > > Subject: Re: [mkars80] Re: Building my mkars80
> > > >
> > > > I have a marked up drawing and the modified radio - I have little
> > > > time
> > > > and
> > > > try to prioritise things so haven't quite got to do it yet!
> > > >
> > > > Steve
> > > >
> > > > ----- Original Message -----
> > > > From: "Phil" <phil-yah@>
> > > > To: <mkars80@...>
> > > > Sent: Tuesday, January 12, 2010 8:17 PM
> > > > Subject: RE: [mkars80] Re: Building my mkars80
> > > >
> > > >
> > > > Steve,
> > > >
> > > > That's a shame, but as I was looking to us it for TX only on 40m, do
> > > > you
> > > > have a list of the mods needed?
> > > >
> > > > Phil
> > > >
> > > > -----Original Message-----
> > > > From: mkars80@... [mailto:mkars80@...]
> > > > On
> > > > Behalf
> > > > Of Steve Drury
> > > > Sent: 12 January 2010 19:59
> > > > To: mkars80@...
> > > > Subject: Re: [mkars80] Re: Building my mkars80
> > > >
> > > > Phil,
> > > >
> > > > The 40M version wasn't very successful based on the MKARS80 PCB -
> > > > electrically it worked OK but had a loud pop through the speaker on
> > > > TX
> > > > to
> > > > RX
> > > >

> > > > and RX to TX transitions.
> > > >
> > > > For the time being it has been shelved.
> > > >
> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----
> > > > From: "zip" <phil-yah@>
> > > > To: <mkars80@...>
> > > > Sent: Monday, January 11, 2010 9:48 PM
> > > > Subject: [mkars80] Re: Building my mkars80
> > > >
> > > >
> > > > Steve,
> > > >
> > > > I believe that you are working on 40m version / modifications, have
> > > > you
> > > > any
> > > > timescales for when it will be available?
> > > >
> > > > Phil
> > > >
> > > >
> > > > --- In mkars80@..., "Phil" <phil-yah@> wrote:
> > > > >
> > > > > Steve,
> > > > >
> > > > > In the dim and distant past I work for a company that made coils
> > > > > for
> > > > > the
> > > > > GPO/BT and the girls used to solder the coils using a No.9 bit.
> > > > > But
> > > > > they
> > > > > were like lightening when they soldered them, when I tried a No.9
> > > > > the
> > > > > solder
> > > > > vaporised.
> > > > >
> > > > > I have used wire wool in the past on thin copper before I got a
> > > > > No.8
> > > > > tip,
> > > > > how thin I really can't remember, but it must have been 28SWG or
> > > > > thinner.
> > > > > If
> > > > > my memory is correct I grabbed the copper wire in the wire wool
> > > > > and
> > > > > then
> > > > > pulled the copper wire through the wool, then tined the ends
> > > > > before
> > > > > soldering the coils in place. The thinner the wire the more

> > > > > genital
> > > > > you
> > > > > have
> > > > > to be with the pressure when squeezing.
> > > > >
> > > > > Phil
> > > > >
> > > > > -----Original Message-----
> > > > > From: mkars80@... [mailto:mkars80@...]
> > > > > On
> > > > > Behalf
> > > > > Of Steve Drury
> > > > > Sent: 03 January 2010 21:03
> > > > > To: mkars80@...
> > > > > Subject: Re: [mkars80] Building my mkars80
> > > > >
> > > > > Hi Phil,
> > > > >
> > > > > I've stated a number of times (on here) the importance of using a
> > > > > hot
> > > > > iron
> > > > > to remove the polyurethane coating from the enameled covered
> > > > > wire - I
> > > > > suspect there are few here with a Weller TCP iron - including me,
> > > > > I
> > > > > use
> > > > > a
> > > > > 25W Antex and find it works well. I've not tried wire wool, does
> > > > > it
> > > > > work
> > > > > OK
> > > > > on the very thin wire?
> > > > >
> > > > > Steve G6ALU
> > > > >
> > > > > ----- Original Message -----
> > > > > From: "Phil" <phil-yah@>
> > > > > To: <mkars80@...>
> > > > > Sent: Sunday, January 03, 2010 8:41 PM
> > > > > Subject: RE: [mkars80] Building my mkars80
> > > > >
> > > > >
> > > > >
> > > > > Steve,
> > > > >
> > > > > If I may offer two tips, first if you print out the drilling
> > > > > template,
> > > > > check
> > > > > it has been printed true to size before drilling.
> > > > > The second is if possible use a Weller soldering iron with a No.8
> > > > > tip

> > > > > when
> > > > > you soldering the polyurethane coated copper wire i.e. the coils
> > > > > and
> > > > > you
> > > > > don't need remove the coating before soldering. If that's not
> > > > > possible
> > > > > suggest you use wire wool to remove the polyurethane prior to
> > > > > tinning
> > > > > /
> > > > > soldering.
> > > > >
> > > > > Phil
> > > > >
> > > > > -----Original Message-----
> > > > > From: mkars80@... [mailto:mkars80@...]
> > > > > On
> > > > > Behalf
> > > > > Of Steve Bell
> > > > > Sent: 02 January 2010 22:05
> > > > > To: mkars80@...
> > > > > Subject: Re: [mkars80] Building my mkars80
> > > > >
> > > > > I started my MKARS80 over the Christmas too, but have only fitted
> > > > > bags
> > > > > 1, 2 and 3. Now I'm tied up completing last years expenses for
> > > > > work
> > > > > and printing / mounting for my photography clubs competition next
> > > > > week, I've run out of free time. At least I've started, I've had
> > > > > the
> > > > > kit since the last MKARS rally.
> > > > >
> > > > > I can only echo Phil's comments, a first class kit and foolproof
> > > > > instructions.
> > > > >
> > > > > Steve
> > > > >
> > > > >
> > > > > On 2 Jan 2010, at 21:22, zip wrote:
> > > > >
> > > > > > Hi all,
> > > > > >
> > > > > > Having spent some 12 hours over Christmas building my mkars80,
> > > > > > when
> > > > > > I applied power to it I was very disappointed only to find that
> > > > > > it
> > > > > > worked first time.
> > > > > >
> > > > > > All I have to do now is to find a piece of wet string that I can
> > > > > > run
> > > > > > down the length of the garden to connect it to.

> > > > > >
> > > > > > Being serious, excellent kit with high quality components and
> > > > > > unambiguous instructions, it gets my recommendations. All I've
> > > > > > got
> > > > > > to do is sort out a ? wave length antenna then I will be able to
> > > > > > make full use of it.
> > > > > > >
> > > > > > 73s,
> > > > > > >
> > > > > > Phil
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > >
> > > > > >
> > > > > >
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> > > > > > Yahoo! Groups Links
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> > > > > > Yahoo! Groups Links
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> > > > > > Yahoo! Groups Links
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> > > > > Yahoo! Groups Links
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> > > > Yahoo! Groups Links
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Yahoo! Groups Links

1553. Re: [mkars80] Re: Build complete....

Yahoo group: mkars80
Date: 2010-02-02 22:24:07 UTC
From: Steve Drury
Topic: 1541 Message: 1553

Lack of length is your problem then Alan!

Steve

----- Original Message -----
From: "a_strong@..." <A_Strong@...>
To: <mkars80@...>
Sent: Tuesday, February 02, 2010 12:47 PM
Subject: [mkars80] Re: Build complete....

> Hi Steve - many thanks, My aerial is not of the best, only a low level
> inverted "V" doublet resonant on about 20MHz. I will investigate. Very
> nice received audio quality however but still low even on a computer type
> headset.
>
> The Mainline slomo drives arrived this morning so I am looking into how to
> fit those at the moment.
>
> Alan
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hello Alan,
>>
>> The audio output is normally cosidered to be very adequate - if you
>> couldn't
>> get any TX power I would expect a problem with one of the mixer
>> transformers
>> but as its working OK these are ruled out. It may be worth just checking
>> the
>> DC voltages on the transistors in the receive line just in case there is
>> a
>> problem there, its quite common to get solder bridges between C-E or B-E
>> leads - the receiver still works but will be quiet.
>>
>> On a reasonable antenna (G5RV, dipole etc) you will need to turn the RF
>> gain
>> back in the evening.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "a_strong@..." <A_Strong@...>
>> To: <mkars80@...>
>> Sent: Tuesday, February 02, 2010 1:48 AM
>> Subject: [mkars80] Build complete....

>>
>>
>> >I finished assembling my MKARS80 kit yesterday, 8 days to the day after
>> >placing the order with Steve. Total build time about 30 hours, which
>> >included metering every component before fitting. The coils were very
>> >time
>> >consuming, partially due geriatric fingers and eyes but also an
>> >ill-timed
>> >telephone call from an ex-friend. The set worked first time and the
>> >setting up was a piece of cake, but I do have a decent scope and
>> >frequency
>> >meter.
>> >
>> > Just two observations, the receiver audio output is quite low on the
>> > two
>> > speakers that I tried, both 8 ohms but adequate on headphones. I wonder
>> > if
>> > this is normal or just a problem with my build? Would replacing the
>> > LM386-1 with an LM386-4 help?
>> >
>> > 2. - I placed three resistors wrongly by confusing their respective
>> > tick-boxes. Personally I would prefer either, the tick box to the left
>> > of
>> > the the descriptive text, or the descriptive text to be right justified
>> > so
>> > that it is close to the tick-box. However these mistakes were
>> > discovered
>> > very quickly, well before switch on time.
>> >
>> > Many thanks to Steve for designing and marketing an affordable little
>> > set
>> > that is truly portable.
>> >
>> > Tomorrow is metal bashing day!
>> >
>> > Alan G3WXI
>> >
>> >
>> >
>> > ------------------------------------
>> >
>> > Yahoo! Groups Links
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>>
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>

> ------------------------------------
>
> Yahoo! Groups Links
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>
>

1554. Re: [mkars80] Voltage indication is low...

Yahoo group: mkars80
Date: 2010-02-02 22:35:08 UTC
From: Steve Drury
Topic: 1547 Message: 1554

The voltage reference for the battery voltage indicator is taken from the 5V supply, the 78L05 isn't specified for accuracy (5%), so a small change in the 5V regulator output will result in a similar inaccuracy in the volt meter reading.

Your option are; trim the values used in the code (not hard) or make a small adjustment to one of the potential divider pair R21 / R23. This pair of resistors divide the input voltage to a range that the A/D converter can handle - as your error is less than 2.2% only a small change is needed, I wouldn't worry about it.... when it reads 10V thats the time to worry!

Steve

----- Original Message -----
From: "a_strong@..." <A_Strong@...>
To: <mkars80@...>
Sent: Tuesday, February 02, 2010 12:25 PM
Subject: [mkars80] Voltage indication is low...

> The LCD voltage display on my MKARS 80 consistently reads about 0.3 volts
> low. With an applied voltage of 13.8V (three different DVMs agree) the
> indicated voltage 13.5V. Can anyone tell me if this tolerance normal?
>
> I have not found any similar questions about this in previous questions
> but that may be due to me not hitting on the right search keyword.
>
> Alan G3WXI
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1555. Re: [mkars80] Re: Low output power

Yahoo group: mkars80
Date: 2010-02-02 22:38:00 UTC
From: Steve Drury
Topic: 1509 Message: 1555

Jerome,

You appear to have to speak louder than normal to achieve the 3.5W output - have you checked all the small transformers to check the wires are soldered properly? You wouldn't notice a 6dB loss on receive but you would on TX.

Steve

----- Original Message -----
From: "Jerome" <w9tko@...>
To: <mkars80@...>
Sent: Tuesday, February 02, 2010 12:58 PM
Subject: [mkars80] Re: Low output power

>
> Martien, I tested it on the antenna and on a dummy load and the output was
> the same. The antenns SWR is flat.
>
>
>
> --- In mkars80@..., "martienrijssemus"
> <martien.rijssemus@...> wrote:
>>
>> Jerry,
>>
>> Mine draws the same peak current. Of course the 5 Watts is only in the
>> peaks, so with a loud whistle. Average power when QSO-ing is much
>> lower.Did you measure the power with a dummy load or did you use the
>> antenna?
>>
>> Martien PA4H
>>
>> --- In mkars80@..., "Jerome" <w9tko@> wrote:
>> >
>> > Steve,
>> >
>> > It draws 1.18 amps on a loud whistle and the LED does go out.
>> > I can get 4 watts out on a vary loud whistle and when I speak into the
>> > mic at 6" I have to speak vary loud to get 3.5 watts out. I have tried
>> > 3 different mics and the one I use seems to work the best. I get vary
>> > good audio reports with it. Jerry
>>
>
>
>
>

> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1556. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-03 08:17:38 UTC
From: martienrijssemus
Topic: 1509 Message: 1556

Hi Steve and Jerome,

Always good to double check those small transformers, but I would expect not only the output but also the DC current (when transmitting) to be lower when the gain in the Tx path is too low. Since the current is what is expected my best guess is (like Steve already suggested earlier) something to be wrong in the output low pass filter. Maybe a misplacement, or a broken capacitor, you could also check the soldering of the inductors and the relais.

Finally there could be something wrong in the filter L6,L7,L9. If something is wrong in this filter than there might be spurious/harmonics from the mixer into the amplifier (and the DC current would look normal) but the spurious will be attenuated by the output lowpass filter and your wanted signal power might be low.

Martien

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Jerome,
>
> You appear to have to speak louder than normal to achieve the 3.5W output -
> have you checked all the small transformers to check the wires are soldered
> properly? You wouldn't notice a 6dB loss on receive but you would on TX.
>
> Steve
>
> ----- Original Message -----
> From: "Jerome" <w9tko@...>
> To: <mkars80@...>
> Sent: Tuesday, February 02, 2010 12:58 PM
> Subject: [mkars80] Re: Low output power
>
>
>
> >
> > Martien, I tested it on the antenna and on a dummy load and the output was
> > the same. The antenns SWR is flat.
> >
> >
> >
> > --- In mkars80@..., "martienrijssemus"
> > <martien.rijssemus@> wrote:
> >>
> >> Jerry,
> >>
> >> Mine draws the same peak current. Of course the 5 Watts is only in the
> >> peaks, so with a loud whistle. Average power when QSO-ing is much

> >> lower.Did you measure the power with a dummy load or did you use the
> >> antenna?
> >>
> >> Martien PA4H
> >>
> >> --- In mkars80@..., "Jerome" <w9tko@> wrote:
> >> >
> >> > Steve,
> >> >
> >> > It draws 1.18 amps on a loud whistle and the LED does go out.
> >> > I can get 4 watts out on a vary loud whistle and when I speak into the
> >> > mic at 6" I have to speak vary loud to get 3.5 watts out. I have tried
> >> > 3 different mics and the one I use seems to work the best. I get vary
> >> > good audio reports with it. Jerry
> >>
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

1557. RE: [mkars80] Re: Low output power

Yahoo group: mkars80
Date: 2010-02-03 09:08:17 UTC
From: Ray Stringfellow
Topic: 1509 Message: 1557

Hi All
The accuracy of even good quality commercial amateur power meters at
low levels is poor. (+_ 20% is not uncommon at the bottom of the range)
It really would be better to test with a scope into a dummy load. It is
probable that there is no fault.
Ray

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of martienrijssemus
Sent: Wednesday, February 03, 2010 8:18 AM
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Low output power

Hi Steve and Jerome,

Always good to double check those small transformers, but I would expect not
only the output but also the DC current (when transmitting) to be lower when
the gain in the Tx path is too low. Since the current is what is expected my
best guess is (like Steve already suggested earlier) something to be wrong
in the output low pass filter. Maybe a misplacement, or a broken capacitor,
you could also check the soldering of the inductors and the relais.

Finally there could be something wrong in the filter L6,L7,L9. If something
is wrong in this filter than there might be spurious/harmonics from the
mixer into the amplifier (and the DC current would look normal) but the
spurious will be attenuated by the output lowpass filter and your wanted
signal power might be low.

Martien

--- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
"Steve Drury" <g6alu@...> wrote:
>
> Jerome,
>
> You appear to have to speak louder than normal to achieve the 3.5W output
-
> have you checked all the small transformers to check the wires are
soldered
> properly? You wouldn't notice a 6dB loss on receive but you would on TX.
>
> Steve
>
> ----- Original Message -----
> From: "Jerome" <w9tko@...>

> To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
> Sent: Tuesday, February 02, 2010 12:58 PM
> Subject: [mkars80] Re: Low output power
>
>
> >
> > Martien, I tested it on the antenna and on a dummy load and the output
was
> > the same. The antenns SWR is flat.
> >
> >
> >
> > --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
"martienrijssemus"
> > <martien.rijssemus@> wrote:
> >>
> >> Jerry,
> >>
> >> Mine draws the same peak current. Of course the 5 Watts is only in the
> >> peaks, so with a loud whistle. Average power when QSO-ing is much
> >> lower.Did you measure the power with a dummy load or did you use the
> >> antenna?
> >>
> >> Martien PA4H
> >>
> >> --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
"Jerome" <w9tko@> wrote:
> >> >
> >> > Steve,
> >> >
> >> > It draws 1.18 amps on a loud whistle and the LED does go out.
> >> > I can get 4 watts out on a vary loud whistle and when I speak into
the
> >> > mic at 6" I have to speak vary loud to get 3.5 watts out. I have
tried
> >> > 3 different mics and the one I use seems to work the best. I get vary

> >> > good audio reports with it. Jerry
> >>
> >
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> >
> > Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1558. RE: [mkars80] Re: Fan assisted mkarsS80

Yahoo group: mkars80
Date: 2010-02-03 09:50:22 UTC
From: David White
Topic: 1540 Message: 1558

i think phil is talking about the 600,000 watt transmitter at crowborough where i worked for a while, he sneaked in and tried to use it on the amateur bands ! ! ! de G3ZPA

NNNN

To: mkars80@...
From: phil-yah@...
Date: Tue, 2 Feb 2010 21:19:02 +0000
Subject: RE: [mkars80] Re: Fan assisted mkarsS80

Martien,

You put my contacts to shame.

Phil

-----Original Message-----
From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
Of martienrijssemus
Sent: 02 February 2010 08:12
To: mkars80@...
Subject: [mkars80] Re: Fan assisted mkarsS80

Hi Phil,

When the weather permits I will be increasing
my long wire to ? wave, who knows how far your transceiver design will get
me.

You be amazed! I am using a low hanging dipole (2 times 14 meter so actually
too short) with open feeder and of course a tuner. Most stations I can hear
on my MKARS80 I can also work, sometimes with amazing signal strength. Best
DX so far: 1300km.

73

Martien PA4H

Yahoo! Groups Links

Tell us your greatest, weirdest and funniest Hotmail stories
http://clk.atdmt.com/UKM/go/195013117/direct/01/

[Non-text portions of this message have been removed]

1559. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-03 12:43:27 UTC
From: vk2jdp
Topic: 1509 Message: 1559

Jerome,

What are you using to measure power with (silly question?) As Ray says, forget a 'wattmeter'.

For example:

Using my (pretty accurate on a carrier) 'peak hold' 'meter, I get about 2.5-3W when the light just goes out, on the 5W scale (with a 1kHz sinewave). On either CRO (yes, I'm a testgear junkie), I am seeing an envelope of about 44V peak-peak. 22Vpk is 15.6Vrms which, at 50 Ohms is 4.87W. This is with a 13.80V supply.

Any less than 2W on a 'meter with a whistle may indicate a problem. Any more than 3 probably indicates flat-topping. In a normal voice with no compressor, I usually see between 1-2W on voice peaks, with the LED just flickering. This all to do with the use of PEP measurements vs. meters that respond to averages.

So, I think that your radio is probably OK, as long as you can easily make the LED go out ;-)

--- In mkars80@..., "Ray Stringfellow" <g4tzr@...> wrote:
>
> Hi All
> The accuracy of even good quality commercial amateur power meters at
> low levels is poor. (+_ 20% is not uncommon at the bottom of the range)
> It really would be better to test with a scope into a dummy load. It is
> probable that there is no fault.
> Ray
>
> -----Original Message-----
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of martienrijssemus
> Sent: Wednesday, February 03, 2010 8:18 AM
> To: mkars80@...
> Subject: [mkars80] Re: Low output power
>
>
>
>
>
> Hi Steve and Jerome,
>
> Always good to double check those small transformers, but I would expect not
> only the output but also the DC current (when transmitting) to be lower when
> the gain in the Tx path is too low. Since the current is what is expected my
> best guess is (like Steve already suggested earlier) something to be wrong
> in the output low pass filter. Maybe a misplacement, or a broken capacitor,

> you could also check the soldering of the inductors and the relais.
>
> Finally there could be something wrong in the filter L6,L7,L9. If something
> is wrong in this filter than there might be spurious/harmonics from the
> mixer into the amplifier (and the DC current would look normal) but the
> spurious will be attenuated by the output lowpass filter and your wanted
> signal power might be low.
>
> Martien
>
> --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> "Steve Drury" <g6alu@> wrote:
> >
> > Jerome,
> >
> > You appear to have to speak louder than normal to achieve the 3.5W output
> -
> > have you checked all the small transformers to check the wires are
> soldered
> > properly? You wouldn't notice a 6dB loss on receive but you would on TX.
> >
> > Steve
> >
> > ----- Original Message -----
> > From: "Jerome" <w9tko@>
> > To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
> > Sent: Tuesday, February 02, 2010 12:58 PM
> > Subject: [mkars80] Re: Low output power
> >
> >
> > >
> > > Martien, I tested it on the antenna and on a dummy load and the output
> was
> > > the same. The antenns SWR is flat.
> > >
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> > >
> > > --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> "martienrijssemus"
> > > <martien.rijssemus@> wrote:
> > >>
> > >> Jerry,
> > >>
> > >> Mine draws the same peak current. Of course the 5 Watts is only in the
> > >> peaks, so with a loud whistle. Average power when QSO-ing is much
> > >> lower.Did you measure the power with a dummy load or did you use the
> > >> antenna?
> > >>
> > >> Martien PA4H
> > >>

> > >> --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> "Jerome" <w9tko@> wrote:
> > >> >
> > >> > Steve,
> > >> >
> > >> > It draws 1.18 amps on a loud whistle and the LED does go out.
> > >> > I can get 4 watts out on a vary loud whistle and when I speak into
> the
> > >> > mic at 6" I have to speak vary loud to get 3.5 watts out. I have
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> > >> > 3 different mics and the one I use seems to work the best. I get vary
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> > > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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1560. Re: Voltage indication is low...

Yahoo group: mkars80
Date: 2010-02-03 13:39:40 UTC
From: eric.thornes@btinternet.com
Topic: 1547 Message: 1560

Hi all

I have seen a similar voiltage reading error

when I borrowed an earlier MKARS 80 from a local radio club member to compare sets I found that the volatge reading on his display was 0.2v higher than on mine - same battey pack etc

his was an early one with v2.1 fw (from memory) and mine is a newish one with v2.4. .....the firmware may be nothing to do with it

my "uncalibrated" DVM reads 0.2v higher than the display on mine

- great set, have the RX running OK now and plan to do the metalwork this weekend

Eric
2E0ERC

--- In mkars80@..., "a_strong@..." <A_Strong@...> wrote:
>
> The LCD voltage display on my MKARS 80 consistently reads about 0.3 volts low. With an applied voltage of 13.8V (three different DVMs agree) the indicated voltage 13.5V. Can anyone tell me if this tolerance normal?
>
> I have not found any similar questions about this in previous questions but that may be due to me not hitting on the right search keyword.
>
> Alan G3WXI
>

1561. RE: [mkars80] Re: Low output power

Yahoo group: mkars80
Date: 2010-02-03 15:01:04 UTC
From: David White
Topic: 1509 Message: 1561

for what its worth i measure power at low levels using a resistor and a thermocouple which seems much more accurate than my osker power meter. Rays point is valid. de G3ZPA

NNNN

To: mkars80@...
From: jonpoint@...
Date: Wed, 3 Feb 2010 12:43:27 +0000
Subject: [mkars80] Re: Low output power

Jerome,

What are you using to measure power with (silly question?) As Ray says, forget a 'wattmeter'.

For example:

Using my (pretty accurate on a carrier) 'peak hold' 'meter, I get about 2.5-3W when the light just goes out, on the 5W scale (with a 1kHz sinewave). On either CRO (yes, I'm a testgear junkie), I am seeing an envelope of about 44V peak-peak. 22Vpk is 15.6Vrms which, at 50 Ohms is 4.87W. This is with a 13.80V supply.

Any less than 2W on a 'meter with a whistle may indicate a problem. Any more than 3 probably indicates flat-topping. In a normal voice with no compressor, I usually see between 1-2W on voice peaks, with the LED just flickering. This all to do with the use of PEP measurements vs. meters that respond to averages.

So, I think that your radio is probably OK, as long as you can easily make the LED go out ;-)

--- In mkars80@yahoogroups.co.uk, "Ray Stringfellow" <g4tzr@...> wrote:
>
> Hi All
> The accuracy of even good quality commercial amateur power meters at
> low levels is poor. (+_ 20% is not uncommon at the bottom of the range)
> It really would be better to test with a scope into a dummy load. It is
> probable that there is no fault.
> Ray
>
> -----Original Message-----
> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
> Of martienrijssemus
> Sent: Wednesday, February 03, 2010 8:18 AM
> To: mkars80@....uk
> Subject: [mkars80] Re: Low output power
>
>

>
>
> Hi Steve and Jerome,
>
> Always good to double check those small transformers, but I would expect not
> only the output but also the DC current (when transmitting) to be lower when
> the gain in the Tx path is too low. Since the current is what is expected my
> best guess is (like Steve already suggested earlier) something to be wrong
> in the output low pass filter. Maybe a misplacement, or a broken capacitor,
> you could also check the soldering of the inductors and the relais.
>
> Finally there could be something wrong in the filter L6,L7,L9. If something
> is wrong in this filter than there might be spurious/harmonics from the
> mixer into the amplifier (and the DC current would look normal) but the
> spurious will be attenuated by the output lowpass filter and your wanted
> signal power might be low.
>
> Martien
>
> --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> "Steve Drury" <g6alu@> wrote:
> >
> > Jerome,
> >
> > You appear to have to speak louder than normal to achieve the 3.5W output
> -
> > have you checked all the small transformers to check the wires are
> soldered
> > properly? You wouldn't notice a 6dB loss on receive but you would on TX.
> >
> > Steve
> >
> > ----- Original Message -----
> > From: "Jerome" <w9tko@>
> > To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
> > Sent: Tuesday, February 02, 2010 12:58 PM
> > Subject: [mkars80] Re: Low output power
> >
> >
> > >
> > > Martien, I tested it on the antenna and on a dummy load and the output
> was
> > > the same. The antenns SWR is flat.
> > >
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> > >
> > > --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> "martienrijssemus"
> > > <martien.rijssemus@> wrote:
> > >>

> > >> Jerry,
> > >>
> > >> Mine draws the same peak current. Of course the 5 Watts is only in the
> > >> peaks, so with a loud whistle. Average power when QSO-ing is much
> > >> lower.Did you measure the power with a dummy load or did you use the
> > >> antenna?
> > >>
> > >> Martien PA4H
> > >>
> > >> --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> "Jerome" <w9tko@> wrote:
> > >> >
> > >> > Steve,
> > >> >
> > >> > It draws 1.18 amps on a loud whistle and the LED does go out.
> > >> > I can get 4 watts out on a vary loud whistle and when I speak into
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> > >> > mic at 6" I have to speak vary loud to get 3.5 watts out. I have
> tried
> > >> > 3 different mics and the one I use seems to work the best. I get vary
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> > >> > good audio reports with it. Jerry
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> > > Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

1562. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-03 15:58:09 UTC
From: panzerbeeb
Topic: 1509 Message: 1562

One thing worth noting is that the power output is not constant over the full bandwidth, I found a considerable variation after the build. If you have access to suitable test gear, and enough patience, it is worth adjusting the 3 trimmers in the filter section for a level(ish) power output across the tuning range. These will interact and it is a juggling act to get the passband right, it took me around an hour to do the first time. You will need a single or 2 tone signal source into the mic socket, unless you can whistle accurately for half an hour or so on a single breath without going biologically QRT! It is also worth doing this at around 1W output level, unless you want to use your MKARS80 as a toaster :-)

Mike G8EEY.

--- In mkars80@yahoogroups.co.uk, David White <davidwhite400@...> wrote:
>
>
> for what its worth i measure power at low levels using a resistor and a thermocouple which seems much more accurate than my osker power meter. Rays point is valid. de G3ZPA
>
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> NNNN
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> To: mkars80@...
> From: jonpoint@...
> Date: Wed, 3 Feb 2010 12:43:27 +0000
> Subject: [mkars80] Re: Low output power
>
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>
> Jerome,
>
> What are you using to measure power with (silly question?) As Ray says, forget a 'wattmeter'.
>
> For example:
>
> Using my (pretty accurate on a carrier) 'peak hold' 'meter, I get about 2.5-3W when the light just goes out, on the 5W scale (with a 1kHz sinewave). On either CRO (yes, I'm a testgear junkie), I am seeing an envelope of about 44V peak-peak. 22Vpk is 15.6Vrms which, at 50 Ohms is 4.87W. This is with a 13.80V supply.
>

> Any less than 2W on a 'meter with a whistle may indicate a problem. Any more than 3 probably indicates flat-topping. In a normal voice with no compressor, I usually see between 1-2W on voice peaks, with the LED just flickering. This all to do with the use of PEP measurements vs. meters that respond to averages.
>
> So, I think that your radio is probably OK, as long as you can easily make the LED go out ;-)
>
> --- In mkars80@..., "Ray Stringfellow" <g4tzr@> wrote:
> >
> > Hi All
> > The accuracy of even good quality commercial amateur power meters at
> > low levels is poor. (+_ 20% is not uncommon at the bottom of the range)
> > It really would be better to test with a scope into a dummy load. It is
> > probable that there is no fault.
> > Ray
> >
> > -----Original Message-----
> > From: mkars80@... [mailto:mkars80@...] On Behalf
> > Of martienrijssemus
> > Sent: Wednesday, February 03, 2010 8:18 AM
> > To: mkars80@...
> > Subject: [mkars80] Re: Low output power
> >
> >
> >
> >
> >
> > Hi Steve and Jerome,
> >
> > Always good to double check those small transformers, but I would expect not
> > only the output but also the DC current (when transmitting) to be lower when
> > the gain in the Tx path is too low. Since the current is what is expected my
> > best guess is (like Steve already suggested earlier) something to be wrong
> > in the output low pass filter. Maybe a misplacement, or a broken capacitor,
> > you could also check the soldering of the inductors and the relais.
> >
> > Finally there could be something wrong in the filter L6,L7,L9. If something
> > is wrong in this filter than there might be spurious/harmonics from the
> > mixer into the amplifier (and the DC current would look normal) but the
> > spurious will be attenuated by the output lowpass filter and your wanted
> > signal power might be low.
> >
> > Martien
> >
> > --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> > "Steve Drury" <g6alu@> wrote:
> > >
> > > Jerome,
> > >
> > > You appear to have to speak louder than normal to achieve the 3.5W output

> > -
> > > have you checked all the small transformers to check the wires are
> > soldered
> > > properly? You wouldn't notice a 6dB loss on receive but you would on TX.
> > >
> > > Steve
> > >
> > > ----- Original Message -----
> > > From: "Jerome" <w9tko@>
> > > To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
> > > Sent: Tuesday, February 02, 2010 12:58 PM
> > > Subject: [mkars80] Re: Low output power
> > >
> > >
> > > > Martien, I tested it on the antenna and on a dummy load and the output
> > was
> > > > the same. The antenns SWR is flat.
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> > > >
> > > >
> > > > --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> > "martienrijssemus"
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> > > >>
> > > >> Jerry,
> > > >>
> > > >> Mine draws the same peak current. Of course the 5 Watts is only in the
> > > >> peaks, so with a loud whistle. Average power when QSO-ing is much
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> > > >> antenna?
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> > > >> >
> > > >> > Steve,
> > > >> >
> > > >> > It draws 1.18 amps on a loud whistle and the LED does go out.
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> Got a cool Hotmail story? Tell us now
> http://clk.atdmt.com/UKM/go/195013117/direct/01/
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> [Non-text portions of this message have been removed]
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1563. Re: Low output power

Yahoo group: mkars80
Date: 2010-02-03 19:47:03 UTC
From: Jerome
Topic: 1509 Message: 1563

After reading some of the comments I think some of you maybe right. Could one of you with a good digital watt meter give it a test and see how much your radio is putting out and let me know. If it's the same as I get then will call it case closed..

--- In mkars80@..., "panzerbeeb" <mike_mobbs@...> wrote:
>
> One thing worth noting is that the power output is not constant over the full bandwidth, I found a considerable variation after the build. If you have access to suitable test gear, and enough patience, it is worth adjusting the 3 trimmers in the filter section for a level(ish) power output across the tuning range. These will interact and it is a juggling act to get the passband right, it took me around an hour to do the first time. You will need a single or 2 tone signal source into the mic socket, unless you can whistle accurately for half an hour or so on a single breath without going biologically QRT! It is also worth doing this at around 1W output level, unless you want to use your MKARS80 as a toaster :-)
>
> Mike G8EEY.
>
> --- In mkars80@..., David White <davidwhite400@> wrote:
> >
> >
> > for what its worth i measure power at low levels using a resistor and a thermocouple which seems much more accurate than my osker power meter. Rays point is valid. de G3ZPA
> >
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> >
> > NNNN
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> >
> > To: mkars80@...
> > From: jonpoint@
> > Date: Wed, 3 Feb 2010 12:43:27 +0000
> > Subject: [mkars80] Re: Low output power
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> >
> > Jerome,
> >
> > What are you using to measure power with (silly question?) As Ray says, forget a 'wattmeter'.
> >
> > For example:

> >
> > Using my (pretty accurate on a carrier) 'peak hold' 'meter, I get about 2.5-3W when the light just goes out, on the 5W scale (with a 1kHz sinewave). On either CRO (yes, I'm a testgear junkie), I am seeing an envelope of about 44V peak-peak. 22Vpk is 15.6Vrms which, at 50 Ohms is 4.87W. This is with a 13.80V supply.
> >
> > Any less than 2W on a 'meter with a whistle may indicate a problem. Any more than 3 probably indicates flat-topping. In a normal voice with no compressor, I usually see between 1-2W on voice peaks, with the LED just flickering. This all to do with the use of PEP measurements vs. meters that respond to averages.
> >
> > So, I think that your radio is probably OK, as long as you can easily make the LED go out ;-)
> >
> > --- In mkars80@..., "Ray Stringfellow" <g4tzr@> wrote:
> > >
> > > Hi All
> > > The accuracy of even good quality commercial amateur power meters at
> > > low levels is poor. (+_ 20% is not uncommon at the bottom of the range)
> > > It really would be better to test with a scope into a dummy load. It is
> > > probable that there is no fault.
> > > Ray
> > >
> > > -----Original Message-----
> > > From: mkars80@... [mailto:mkars80@...] On Behalf
> > > Of martienrijssemus
> > > Sent: Wednesday, February 03, 2010 8:18 AM
> > > To: mkars80@...
> > > Subject: [mkars80] Re: Low output power
> > >
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> > >
> > > Hi Steve and Jerome,
> > >
> > > Always good to double check those small transformers, but I would expect not
> > > only the output but also the DC current (when transmitting) to be lower when
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> > > best guess is (like Steve already suggested earlier) something to be wrong
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> > > Finally there could be something wrong in the filter L6,L7,L9. If something
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> > > mixer into the amplifier (and the DC current would look normal) but the
> > > spurious will be attenuated by the output lowpass filter and your wanted
> > > signal power might be low.
> > >
> > > Martien
> > >

> > > --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
> > > "Steve Drury" <g6alu@> wrote:
> > > >
> > > > Jerome,
> > > >
> > > > You appear to have to speak louder than normal to achieve the 3.5W output
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> > > > have you checked all the small transformers to check the wires are
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> > > > ----- Original Message -----
> > > > From: "Jerome" <w9tko@>
> > > > To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
> > > > Sent: Tuesday, February 02, 2010 12:58 PM
> > > > Subject: [mkars80] Re: Low output power
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> > > > > Martien, I tested it on the antenna and on a dummy load and the output
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> > > > > --- In mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk,
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> > > > >> > Steve,
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> > Got a cool Hotmail story? Tell us now
> > http://clk.atdmt.com/UKM/go/195013117/direct/01/
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> > [Non-text portions of this message have been removed]
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1564. Re: [mkars80] Re: Voltage indication is low...

Yahoo group: mkars80
Date: 2010-02-03 19:59:38 UTC
From: Steve Drury
Topic: 1547 Message: 1564

I've just measured my test units on a 13.8V supply, checked with a precision meter:

1st production part reads 13.9V
40 mtr prototype (has similar code) reads 14V, I measured the 5V regulator output which is 4.9V

The accuracy is dependent on the 5V regulator output; as I suggested before, if you want a more accurate reading trim the value of one of the divider resistors very slightly by placing another of higher value in parallel .

Steve G6ALU

----- Original Message -----
From: <eric.thornes@...>
To: <mkars80@...>
Sent: Wednesday, February 03, 2010 1:39 PM
Subject: [mkars80] Re: Voltage indication is low...

> Hi all
>
> I have seen a similar voiltage reading error
>
> when I borrowed an earlier MKARS 80 from a local radio club member to
> compare sets I found that the volatge reading on his display was 0.2v
> higher than on mine - same battey pack etc
>
> his was an early one with v2.1 fw (from memory) and mine is a newish one
> with v2.4. ....the firmware may be nothing to do with it
>
> my "uncalibrated" DVM reads 0.2v higher than the display on mine
>
> - great set, have the RX running OK now and plan to do the metalwork this
> weekend
>
> Eric
> 2E0ERC
>
> --- In mkars80@..., "a_strong@..." <A_Strong@...> wrote:
>>
>> The LCD voltage display on my MKARS 80 consistently reads about 0.3 volts
>> low. With an applied voltage of 13.8V (three different DVMs agree) the
>> indicated voltage 13.5V. Can anyone tell me if this tolerance normal?
>>
>> I have not found any similar questions about this in previous questions
>> but that may be due to me not hitting on the right search keyword.

>>
>> Alan G3WXI
>>
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> Yahoo! Groups Links
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1565. RE: [mkars80] Re: Fan assisted mkarsS80

Yahoo group: mkars80
Date: 2010-02-03 22:52:23 UTC
From: Phil
Topic: 1540 Message: 1565

Honest,,,, it wasn't me but Cliff did know an engineer who did something very similar when he had the opertunity.

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of David White
Sent: 03 February 2010 09:50
To: mkars80@...
Subject: RE: [mkars80] Re: Fan assisted mkarsS80

i think phil is talking about the 600,000 watt transmitter at crowborough where i worked for a while, he sneaked in and tried to use it on the amateur bands ! ! ! de G3ZPA

NNNN

To: mkars80@...
From: phil-yah@....uk
Date: Tue, 2 Feb 2010 21:19:02 +0000
Subject: RE: [mkars80] Re: Fan assisted mkarsS80

Martien,

You put my contacts to shame.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf Of martienrijssemus
Sent: 02 February 2010 08:12
To: mkars80@...
Subject: [mkars80] Re: Fan assisted mkarsS80

Hi Phil,

When the weather permits I will be increasing
my long wire to ½ wave, who knows how far your transceiver design will get me.

You be amazed! I am using a low hanging dipole (2 times 14 meter so actually too short) with open feeder and of course a tuner. Most stations I can hear on my MKARS80 I can also work, sometimes with amazing signal strength. Best DX so far: 1300km.

73

Martien PA4H

Yahoo! Groups Links

_____
Tell us your greatest, weirdest and funniest Hotmail stories
http://clk.atdmt.com/UKM/go/195013117/direct/01/

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1566. RE: [mkars80] Re: Fan assisted mkarsS80

Yahoo group: mkars80
Date: 2010-02-04 10:21:15 UTC
From: David White
Topic: 1540 Message: 1566

yes phil and i know who it was (his initials are JJ) sorry to block this intelligent website with rubbish remarks chaps de G3ZPA

NNNN

To: mkars80@...
From: phil-yah@...
Date: Wed, 3 Feb 2010 22:52:23 +0000
Subject: RE: [mkars80] Re: Fan assisted mkarsS80

Honest,,,, it wasn't me but Cliff did know an engineer who did something very similar when he had the opertunity.

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of David White
Sent: 03 February 2010 09:50
To: mkars80@...
Subject: RE: [mkars80] Re: Fan assisted mkarsS80

i think phil is talking about the 600,000 watt transmitter at crowborough where i worked for a while, he sneaked in and tried to use it on the amateur bands ! ! ! de G3ZPA

NNNN

To: mkars80@...
From: phil-yah@...
Date: Tue, 2 Feb 2010 21:19:02 +0000
Subject: RE: [mkars80] Re: Fan assisted mkarsS80

Martien,

You put my contacts to shame.

Phil

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf Of martienrijssemus
Sent: 02 February 2010 08:12
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Fan assisted mkarsS80

Hi Phil,

When the weather permits I will be increasing
my long wire to ? wave, who knows how far your transceiver design will get

me.

You be amazed! I am using a low hanging dipole (2 times 14 meter so actually too short) with open feeder and of course a tuner. Most stations I can hear on my MKARS80 I can also work, sometimes with amazing signal strength. Best DX so far: 1300km.

73

Martien PA4H

Yahoo! Groups Links

_____
Tell us your greatest, weirdest and funniest Hotmail stories
http://clk.atdmt.com/UKM/go/195013117/direct/01/

[Non-text portions of this message have been removed]

Yahoo! Groups Links

_____
Tell us your greatest, weirdest and funniest Hotmail stories
http://clk.atdmt.com/UKM/go/195013117/direct/01/

[Non-text portions of this message have been removed]

1567. Re: Voltage indication is low...

Yahoo group: mkars80
Date: 2010-02-05 14:06:32 UTC
From: g3oth
Topic: 1547 Message: 1567

Hi Steve and Co.,
For the record I have also made some measurements this morning on my bog standard MKARS80 constructed late 2008.
I am using a 7AHr Gel Cell Battery connected to the MKARS80 via 20 cm leads made up from 16/0.2mm wire.
On receive, the MKARS80 displayed 12.8 volts and my DVM at battery terminals displayed 12.83 volts.
IMHO results well within an acceptable tolerance.
A further observation for builders and something to watch out for.
Initially when using just a thin twin 2 meter cable with an integrated moulded plug, salvaged from a small wall wort, I found that there were quite large voltage drops across the cable (almost a volt under transmit conditions) which I considered to be unacceptable.
I would therefore recommend using as thick and as short power leads as possible, compatable with squeezing them into the power plug, before deciding on doing any circuit modifications.
73 de Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I've just measured my test units on a 13.8V supply, checked with a precision
> meter:
>
> 1st production part reads 13.9V
> 40 mtr prototype (has similar code) reads 14V, I measured the 5V regulator
> output which is 4.9V
>
> The accuracy is dependent on the 5V regulator output; as I suggested before,
> if you want a more accurate reading trim the value of one of the divider
> resistors very slightly by placing another of higher value in parallel .
>
> Steve G6ALU
>
> ----- Original Message -----
> From: <eric.thornes@...>
> To: <mkars80@...>
> Sent: Wednesday, February 03, 2010 1:39 PM
> Subject: [mkars80] Re: Voltage indication is low...
>
>
> > Hi all
> >
> > I have seen a similar voiltage reading error
> >
> > when I borrowed an earlier MKARS 80 from a local radio club member to
> > compare sets I found that the volatge reading on his display was 0.2v

> > higher than on mine - same battey pack etc
> >
> > his was an early one with v2.1 fw (from memory) and mine is a newish one
> > with v2.4. ....the firmware may be nothing to do with it
> >
> > my "uncalibrated" DVM reads 0.2v higher than the display on mine
> >
> > - great set, have the RX running OK now and plan to do the metalwork this
> > weekend
> >
> > Eric
> > 2E0ERC
> >
> > --- In mkars80@..., "a_strong@" <A_Strong@> wrote:
> >>
> >> The LCD voltage display on my MKARS 80 consistently reads about 0.3 volts
> >> low. With an applied voltage of 13.8V (three different DVMs agree) the
> >> indicated voltage 13.5V. Can anyone tell me if this tolerance normal?
> >>
> >> I have not found any similar questions about this in previous questions
> >> but that may be due to me not hitting on the right search keyword.
> >>
> >> Alan G3WXI
> >>
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

1568. Re: Build complete & now working FB...

Yahoo group: mkars80
Date: 2010-02-06 10:20:26 UTC
From: a_strong@btopenworld.com
Topic: 1541 Message: 1568

Hi Steve and group members

With Steve's invaluable assistance the low audio problem has been cured, Q18 reversed. No excuses. I now have plenty of audio, even on my insignificant aerial.

The metal bashing did not go well in that I cut the display aperture sufficiently oversize to look untidy and I could not find a bezel to suit the display. I decided to use a back-lit display that I have which required the aperture to be made larger. A downside is that the back light draws as much current as the entire receiver so today's job is to fit an inconspicuous switch to turn it on only when required. Also, it dissipates a total of almost 1.5w which help to heat up the inside of the enclosure.

I also added a Mainline 6020/2 slow motion drive to the main tuning capacitor which is well worth the extra fiver and almost renders the fine tuning pot redundant.

All in all I am highly delighted with this little trannsceiver and add my voice to all those who sing its praises. Any problems that I encountered were of my own making.

Many thanks to Steve for his support in sorting them out for me.

Alan G3WXI

--- In mkars80@..., "a_strong@..." <A_Strong@...> wrote:
>
> I finished assembling my MKARS80 kit yesterday, 8 days to the day after placing the order with Steve. Total build time about 30 hours, which included metering every component before fitting. The coils were very time consuming, partially due geriatric fingers and eyes but also an ill-timed telephone call from an ex-friend. The set worked first time and the setting up was a piece of cake, but I do have a decent scope and frequency meter.
>
> Just two observations, the receiver audio output is quite low on the two speakers that I tried, both 8 ohms but adequate on headphones. I wonder if this is normal or just a problem with my build? Would replacing the LM386-1 with an LM386-4 help?
>
> 2. - I placed three resistors wrongly by confusing their respective tick-boxes. Personally I would prefer either, the tick box to the left of the the descriptive text, or the descriptive text to be right justified so that it is close to the tick-box. However these mistakes were discovered very quickly, well before switch on time.
>
> Many thanks to Steve for designing and marketing an affordable little set that is truly portable.
>
> Tomorrow is metal bashing day!
>
> Alan G3WXI
>

1569. Re: Build complete & now working FB - correction...

Yahoo group: mkars80
Date: 2010-02-06 10:46:35 UTC
From: a_strong@btopenworld.com
Topic: 1541 Message: 1569

For Q18 read Q17.

--- In mkars80@..., "a_strong@..." <A_Strong@...> wrote:
>
>
>
> Hi Steve and group members
>
> With Steve's invaluable assistance the low audio problem has been cured, Q18 reversed. No excuses. I now have plenty of audio, even on my insignificant aerial.....

1570. Sunday net

Yahoo group: mkars80
Date: 2010-02-06 20:33:12 UTC
From: Steve Drury
Topic: 1570 Message: 1570

Apologies folks but I can't make the net tomorrow morning, I'm out early.

If there is some one with a good signal (antenna) please take over the reins and keep the net going.

Looking through my logs there have been dozens of different stations participate in the net, when I have a minute I will make a "hall of fame" and name them all.

Regards,
Steve G6ALU

[Non-text portions of this message have been removed]

1571. PTT / Mike / Headset Tip.

Yahoo group: mkars80
Date: 2010-02-07 17:54:32 UTC
From: g3oth
Topic: 1571 Message: 1571

Hi All,

Here is tip I have just passed on to Alan G3WXI which some of you also might wish to consider.

I use a very cheap combined electret mike and 32 Ohm / phone stereo headset obtained for under £5 from a local Netto store with my MKARS80.
It originally had an in line potentiometer volume control situated about halfway along its cord.
I removed this and replaced it with an in line ON/OFF switch of the type used for small table lamps and re-routed the wiring inside it as follows:

1 Cut TIP wire coming FROM moulded green audio stereo jack and connect it to wire FROM electret mike.
2 Cut RING wire coming FROM moulded green audio stereo jack and connect it to FIRST switch terminal.
3 Cut SLEEVE braid FROM moulded green audio stereo jack and connect it to SECOND switch terminal.
4 Connect SECOND switch terminal to braid FROM electret mike.
5 Cut TIP wire FROM moulded pink mike jack and connect it to both wires FROM LHS and FROM RHS stereo phones.
6 Cut SLEEVE braid FROM moulded pink mike jack and connect it to braid FROM both stereo phones.

What you end up with is a nice dedicated moulded plug assembly comprising PTT, Mike and Mono 16 Ohm Phones ideally suited to the MKARS80 terminations.

Things to watch out for:

All the cheap headsets I have come across so far have had their mikes terminated with TPS (tip, ring, sleeve) jacks, rather than Mono jacks, in some of them the ring is either floating or connected to the sleeve, whereas in others the ring is shorted to the tip.
If the ring is shorted to the tip, you need to investigate further, before proceeding with the above mods.

Now remember GREEN for MIKE......PINK for PHONES......and don't try to use your headset with your PC again.

Trust this may be of some help.

73 de Charles G3OTH

1572. youtube video

Yahoo group: mkars80
Date: 2010-02-10 10:24:30 UTC
From: mark
Topic: 1572 Message: 1572

hi all i have posted a video of the on going mods and what have you of the mkars80 mk2 i have done. here is a link to the video from mark 2w0jmk

http://www.youtube.com/watch?gl=GB&v=wV404HrF3H4

1573. Re: [mkars80] youtube video

Yahoo group: mkars80
Date: 2010-02-10 10:57:54 UTC
From: JIM HENDERSON
Topic: 1572 Message: 1573

Hi, Mark any chance you could put a copy of the DCS2 circuit and connection details to the Mkars in the files section, wuld like to do this mod to mine.

Regards Jim

--- On Wed, 10/2/10, mark <mw3hqt@...> wrote:

From: mark <mw3hqt@...>
Subject: [mkars80] youtube video
To: mkars80@yahoogroups.co.uk
Date: Wednesday, 10 February, 2010, 10:24

hi all i have posted a video of the on going mods and what have you of the mkars80 mk2 i have done. here is a link to the video from mark 2w0jmk

http://www.youtube. com/watch? gl=GB&v=wV404HrF 3H4

[Non-text portions of this message have been removed]

1574. Re: youtube video

Yahoo group: mkars80
Date: 2010-02-10 12:23:54 UTC
From: mark
Topic: 1572 Message: 1574

Hi Jim yes i will photocopy it later on tonight and post it in the file section.
you will have to do the audio mod to get it to work. what i did was lift leg 3 on the audio ic and solderd a cable to it put another cable in the hole for the leg and one from earth to a 50k pot.take the audio from the input of the ic to drive the dcs2
from mark 2w0jmk

--- In mkars80@yahoogroups.co.uk, JIM HENDERSON <kenpro@...> wrote:
>
> Hi, Mark any chance you could put a copy of the DCS2 circuit and connection details to the Mkars in the files section, wuld like to do this mod to mine.
> Â
> Regards Jim
>
> --- On Wed, 10/2/10, mark <mw3hqt@...> wrote:
>
>
> From: mark <mw3hqt@...>
> Subject: [mkars80] youtube video
> To: mkars80@...
> Date: Wednesday, 10 February, 2010, 10:24
>
>
> Â
>
>
>
> hi all i have posted a video of the on going mods and what have you of the mkars80 mk2 i have done. here is a link to the video from mark 2w0jmk
>
> http://www.youtube. com/watch? gl=GB&v=wV404HrF 3H4
>
>
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>
> [Non-text portions of this message have been removed]
>

1575. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2010-02-10 12:51:40 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 1575

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /DCS2 AUDIO DRIVE/IMGP1746.JPG
Uploaded by : mark2w0jmk <mw3hqt@...>
Description :

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/DCS2%20AUDIO%20DRIVE/IMGP1746.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

mark2w0jmk <mw3hqt@...>

1576. One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-11 11:24:14 UTC
From: sm0yyq
Topic: 1576 Message: 1576

Hi all, my name is Mattias.. and my signal is SM0YYQ.

I have recently build my MKARS80 finished and i have had 4 QSO's with it at the moment.. :)

I have had 57-58 report's so far... but the conditions are not soo good at days in sweden..

I dont know how much power the radio deliver at the moment (i dont have a powermeter), but i have putted the current from about 271ma to 321-322ma.

So i guess it deliver som power anyway, one thing i have noticed is that the end transistor doesent sems to be warm, i cant feel any heat at all almost on the case.

Is that normal, cos i know my FT-817 i hade before become more warm whan whis... radio.

/73 de SM0YYQ /Mattias

1577. Re: [mkars80] One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-11 12:27:01 UTC
From: Robert Styles
Topic: 1576 Message: 1577

Hi Mattias, what Voltage are you using and what is the Amps reading on TX using a volt meter? into a dummy load..
Rob

On 11 Feb 2010, at 11:24, sm0yyq wrote:

> Hi all, my name is Mattias.. and my signal is SM0YYQ.
>
> I have recently build my MKARS80 finished and i have had 4 QSO's with it at the moment.. :)
>
> I have had 57-58 report's so far... but the conditions are not soo good at days in sweden..
>
> I dont know how much power the radio deliver at the moment (i dont have a powermeter), but i have putted the current from about 271ma to 321-322ma.
>
> So i guess it deliver som power anyway, one thing i have noticed is that the end transistor doesent sems to be warm, i cant feel any heat at all almost on the case.
>
> Is that normal, cos i know my FT-817 i hade before become more warm whan whis... radio.
>
> /73 de SM0YYQ /Mattias
>
>

[Non-text portions of this message have been removed]

1578. Re: One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-11 19:26:30 UTC
From: sm0yyq
Topic: 1576 Message: 1578

Hi Rob..

I havent messured the amp's whan i transmit.. only whan i messured the current..

And i have rised it to about 321-323ma from 271ma so i guess the end transistor pulling out the power it should.

I should try to messure the amp whan i transimtting also, to bad my equipment doesent have "peak and hold" but i maybee get a clue over the situation anyway...:)

Have talked to some longer distance today also, so it seems the effect find it's way out of the antenna.:)

73's /Mattias

--- In mkars80@..., Robert Styles <robpegs@...> wrote:
>
> Hi Mattias, what Voltage are you using and what is the Amps reading on TX using a volt meter? into a dummy load..
> Rob
>
>
> On 11 Feb 2010, at 11:24, sm0yyq wrote:
>
> > Hi all, my name is Mattias.. and my signal is SM0YYQ.
> >
> > I have recently build my MKARS80 finished and i have had 4 QSO's with it at the moment.. :)
> >
> > I have had 57-58 report's so far... but the conditions are not soo good at days in sweden..
> >
> > I dont know how much power the radio deliver at the moment (i dont have a powermeter), but i have putted the current from about 271ma to 321-322ma.
> >
> > So i guess it deliver som power anyway, one thing i have noticed is that the end transistor doesent sems to be warm, i cant feel any heat at all almost on the case.
> >
> > Is that normal, cos i know my FT-817 i hade before become more warm whan whis... radio.
> >
> > /73 de SM0YYQ /Mattias
> >
> >
>
>
>

> [Non-text portions of this message have been removed]
>

1579. Re: One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-11 20:47:37 UTC
From: Hasse
Topic: 1576 Message: 1579

Hallå på dig Mattias !I think it`s more polite to whrite this in English.Put the amp-meter in serie with your kit and modulate for
King himself,and depending of BIAS-setting you should have a current consumtion of about 1.3-1.6 A.You know my e-mail Mattias:Give me a line and we can made up a sked.I copy many qrp-stations in the Stockholm area here in Gothenburg with fine signals.Nice to have you in the air with your newbuilt MKARS80.Welcome to the gang.
73 de SM6MPA/Hans

1580. Re: One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-12 15:34:55 UTC
From: sm0yyq
Topic: 1576 Message: 1580

Thx Hasse and all other for the coments. :)

Yeah it's a fine little peace indeed.. i have a talk with a local amateur today on radio .. and he complains (like always), about my radio was to wide in modulation and so on..

He also told me what i heard almost as good in USB whan in LSB mode .. i dont know if the radios filter for what is not so good or if it is somthing i need to juster.?

/Mattias

--- In mkars80@..., "Hasse" <sm6mpa@...> wrote:
>
>
>
> Hallå på dig Mattias !I think it`s more polite to whrite this in English.Put the amp-meter in serie with your kit and modulate for
> King himself,and depending of BIAS-setting you should have a current
> consumtion of about 1.3-1.6 A.You know my e-mail Mattias:Give me a line
> and we can made up a sked.I copy many qrp-stations in the Stockholm
> area here in Gothenburg with fine signals.Nice to have you in the
> air with your newbuilt MKARS80.Welcome to the gang.
> 73 de SM6MPA/Hans
>

1581. Re: [mkars80] Re: One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-12 16:06:07 UTC
From: Robert Styles
Topic: 1576 Message: 1581

Hi Hasse, i would take what the other ham says with a pinch of salt, the audio on the MKARS80 is outstanding for a QRP kit, I have nothing but great reports. wonder what type of mic you are using?
Rob
On 12 Feb 2010, at 15:34, sm0yyq wrote:

> Thx Hasse and all other for the coments. :)
>
> Yeah it's a fine little peace indeed.. i have a talk with a local amateur today on radio .. and he complains (like always), about my radio was to wide in modulation and so on..
>
> He also told me what i heard almost as good in USB whan in LSB mode .. i dont know if the radios filter for what is not so good or if it is somthing i need to juster.?
>
> /Mattias
>
> --- In mkars80@..., "Hasse" <sm6mpa@...> wrote:
> >
> >
> >
> > Hall? p? dig Mattias !I think it`s more polite to whrite this in English.Put the amp-meter in serie with your kit and modulate for
> > King himself,and depending of BIAS-setting you should have a current
> > consumtion of about 1.3-1.6 A.You know my e-mail Mattias:Give me a line
> > and we can made up a sked.I copy many qrp-stations in the Stockholm
> > area here in Gothenburg with fine signals.Nice to have you in the
> > air with your newbuilt MKARS80.Welcome to the gang.
> > 73 de SM6MPA/Hans
> >
>
>

[Non-text portions of this message have been removed]

1582. Re: [mkars80] Re: One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-12 17:32:46 UTC
From: Steve Drury
Topic: 1576 Message: 1582

Hi Mattias,

The unwanted side-band is typically 50dB down on the wanted signal which I consider to be completely adequate - the "typical" transceiver measured is mine of course but it is the same as yours!

Have you ballanced the carrier insertion mixer? If not this could cause your carrier to be transmitted.

Make sure the BFO is correctly adjusted at 10.000MHz and you should be OK, its easy to tell if there is a problem; tune into a very strong heterodyne (strong CW works), adjust the tuning slowly so that the tone gets lower in frequency and eventually goes through zero beat. As you keep tuning it will appear in the upper side-band and should be very quiet.... give it a try! If it is as loud then you have the problem he describes, if it is very much lower then his radio has a problem.

When talking the LED should only flicker off, if it stays off talk further from the microphone.

Could this amateur be jealous of you - you can talk to him with a ?50 radio but he is probably using a > ?1000 radio to talk back?

Steve G6ALU

----- Original Message -----
From: "sm0yyq" <sm0yyq@...>
To: <mkars80@...>
Sent: Friday, February 12, 2010 3:34 PM
Subject: [mkars80] Re: One new MKARS80 station in the air.. :)

Thx Hasse and all other for the coments. :)

Yeah it's a fine little peace indeed.. i have a talk with a local amateur today on radio .. and he complains (like always), about my radio was to wide in modulation and so on..

He also told me what i heard almost as good in USB whan in LSB mode .. i dont know if the radios filter for what is not so good or if it is somthing i need to juster.?

/Mattias

--- In mkars80@..., "Hasse" <sm6mpa@...> wrote:
>
>
>
> Hall? p? dig Mattias !I think it`s more polite to whrite this in

> English.Put the amp-meter in serie with your kit and modulate for
> King himself,and depending of BIAS-setting you should have a current
> consumtion of about 1.3-1.6 A.You know my e-mail Mattias:Give me a line
> and we can made up a sked.I copy many qrp-stations in the Stockholm
> area here in Gothenburg with fine signals.Nice to have you in the
> air with your newbuilt MKARS80.Welcome to the gang.
> 73 de SM6MPA/Hans
>

Yahoo! Groups Links

1583. Re: [mkars80] Re: One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-12 17:56:11 UTC
From: John Housego
Topic: 1576 Message: 1583

Mattias,

I agree with Steve's comments, check the set up. I have never received any negative comments at all on my MKARS80 contacts and I have had 100s. I suspect Steve's last paragraph is more likely to be the issue! Keep us posted.

73 John M0TIF

On Fri, 2010-02-12 at 17:32 +0000, Steve Drury wrote:

>
>
> Hi Mattias,
>
> The unwanted side-band is typically 50dB down on the wanted signal
> which I
> consider to be completely adequate - the "typical" transceiver
> measured is
> mine of course but it is the same as yours!
>
> Have you ballanced the carrier insertion mixer? If not this could
> cause your
> carrier to be transmitted.
>
> Make sure the BFO is correctly adjusted at 10.000MHz and you should be
> OK,
> its easy to tell if there is a problem; tune into a very strong
> heterodyne
> (strong CW works), adjust the tuning slowly so that the tone gets
> lower in
> frequency and eventually goes through zero beat. As you keep tuning it
> will
> appear in the upper side-band and should be very quiet.... give it a
> try! If
> it is as loud then you have the problem he describes, if it is very
> much
> lower then his radio has a problem.
>
> When talking the LED should only flicker off, if it stays off talk
> further
> from the microphone.
>
> Could this amateur be jealous of you - you can talk to him with a £50
> radio
> but he is probably using a > £1000 radio to talk back?

>
> Steve G6ALU
>
> ----- Original Message -----
> From: "sm0yyq" <sm0yyq@...>
> To: <mkars80@...>
> Sent: Friday, February 12, 2010 3:34 PM
> Subject: [mkars80] Re: One new MKARS80 station in the air.. :)
>
> Thx Hasse and all other for the coments. :)
>
> Yeah it's a fine little peace indeed.. i have a talk with a local
> amateur
> today on radio .. and he complains (like always), about my radio was
> to wide
> in modulation and so on..
>
> He also told me what i heard almost as good in USB whan in LSB mode ..
> i
> dont know if the radios filter for what is not so good or if it is
> somthing
> i need to juster.?
>
> /Mattias
>
> --- In mkars80@..., "Hasse" <sm6mpa@...> wrote:
> >
> >
> >
> > Hallå på dig Mattias !I think it`s more polite to whrite this in
> > English.Put the amp-meter in serie with your kit and modulate for
> > King himself,and depending of BIAS-setting you should have a current
> > consumtion of about 1.3-1.6 A.You know my e-mail Mattias:Give me a
> line
> > and we can made up a sked.I copy many qrp-stations in the Stockholm
> > area here in Gothenburg with fine signals.Nice to have you in the
> > air with your newbuilt MKARS80.Welcome to the gang.
> > 73 de SM6MPA/Hans
> >
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1584. Re: One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-13 07:37:51 UTC
From: sm0yyq
Topic: 1576 Message: 1584

Hi Again, and Steve also..

To Steve, must say im wery pleased with the build.. it was more easy whan i expected to make it work.. :)

I have messured the BFO to about 9.998Mhz, and i cant get it higher it seems.

I have also used my Softrock 80/40 kit to minimize the mixer signal, to as small i could.

I dont have a oscilloscope, so i thought whis thas the best way to make the adjustment..

And last, the amateur in my region.. yeah it may be much eisier to hear all the "bad" things as u get a realy strong signal into ur antenna.

He also told me before my commersial Yaesu FT-857D rig was to broad in bandwidth, yaya anyway i dont care what he say and i have also had reports telling me my build sounds well.

/73's /Mattias

--- In mkars80@yahoogroups.co.uk, John Housego <John.Housego1@...> wrote:
>
> Mattias,
>
> I agree with Steve's comments, check the set up. I have never received
> any negative comments at all on my MKARS80 contacts and I have had 100s.
> I suspect Steve's last paragraph is more likely to be the issue! Keep us
> posted.
>
> 73 John M0TIF
>
> On Fri, 2010-02-12 at 17:32 +0000, Steve Drury wrote:
>
> > >
> > >
> > > Hi Mattias,
> > >
> > > The unwanted side-band is typically 50dB down on the wanted signal
> > > which I
> > > consider to be completely adequate - the "typical" transceiver
> > > measured is
> > > mine of course but it is the same as yours!
> > >
> > > Have you ballanced the carrier insertion mixer? If not this could
> > > cause your
> > > carrier to be transmitted.
> > >
> > > Make sure the BFO is correctly adjusted at 10.000MHz and you should be

> > OK,
> > its easy to tell if there is a problem; tune into a very strong
> > heterodyne
> > (strong CW works), adjust the tuning slowly so that the tone gets
> > lower in
> > frequency and eventually goes through zero beat. As you keep tuning it
> > will
> > appear in the upper side-band and should be very quiet.... give it a
> > try! If
> > it is as loud then you have the problem he describes, if it is very
> > much
> > lower then his radio has a problem.
> >
> > When talking the LED should only flicker off, if it stays off talk
> > further
> > from the microphone.
> >
> > Could this amateur be jealous of you - you can talk to him with a Â£50
> > radio
> > but he is probably using a > Â£1000 radio to talk back?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "sm0yyq" <sm0yyq@...>
> > To: <mkars80@...>
> > Sent: Friday, February 12, 2010 3:34 PM
> > Subject: [mkars80] Re: One new MKARS80 station in the air.. :)
> >
> > Thx Hasse and all other for the coments. :)
> >
> > Yeah it's a fine little peace indeed.. i have a talk with a local
> > amateur
> > today on radio .. and he complains (like always), about my radio was
> > to wide
> > in modulation and so on..
> >
> > He also told me what i heard almost as good in USB whan in LSB mode ..
> > i
> > dont know if the radios filter for what is not so good or if it is
> > somthing
> > i need to juster.?
> >
> > /Mattias
> >
> > --- In mkars80@yahoogroups.co.uk, "Hasse" <sm6mpa@> wrote:
> > >
> > >
> > >
> > > HallÃ¥ pÃ¥ dig Mattias !I think it`s more polite to whrite this in

> > > English.Put the amp-meter in serie with your kit and modulate for
> > > King himself,and depending of BIAS-setting you should have a current
> > > consumtion of about 1.3-1.6 A.You know my e-mail Mattias:Give me a
> > line
> > > and we can made up a sked.I copy many qrp-stations in the Stockholm
> > > area here in Gothenburg with fine signals.Nice to have you in the
> > > air with your newbuilt MKARS80.Welcome to the gang.
> > > 73 de SM6MPA/Hans
> > >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
>
>
>
> [Non-text portions of this message have been removed]
>

1585. Re: [mkars80] Re: One new MKARS80 station in the air.. :)

Yahoo group: mkars80
Date: 2010-02-13 17:26:47 UTC
From: Hans-Göran
Topic: 1576 Message: 1585

Hello Robert !
I agree with that for 100%..I`m very pleased with what my little MKARS are able to do.I`m ,like the rest of us i believe,interest in to improve things, just to suit my own purposes.No wrong with
that. It is a part of our wonderful hobby.I found it very interesting to follow how Hams create their own sollotion with one and the same object.
best 73 de SM6MPA/Hasse
----- Original Message -----
From: "Robert Styles" <robpegs@...
To: <mkars80@...>
Sent: Friday, February 12, 2010 5:06 PM
Subject: Re: [mkars80] Re: One new MKARS80 station in the air.. :)

Hi Hasse, i would take what the other ham says with a pinch of salt, the audio on the MKARS80 is outstanding for a QRP kit, I have nothing but great reports. wonder what type of mic you are using?
Rob
On 12 Feb 2010, at 15:34, sm0yyq wrote:

> Thx Hasse and all other for the coments. :)
>
> Yeah it's a fine little peace indeed.. i have a talk with a local amateur
> today on radio .. and he complains (like always), about my radio was to
> wide in modulation and so on..
>
> He also told me what i heard almost as good in USB whan in LSB mode .. i
> dont know if the radios filter for what is not so good or if it is
> somthing i need to juster.?
>
> /Mattias
>
> --- In mkars80@..., "Hasse" <sm6mpa@...> wrote:
> >
> >
> >
> > Hall? p? dig Mattias !I think it`s more polite to whrite this in
> > English.Put the amp-meter in serie with your kit and modulate for
> > King himself,and depending of BIAS-setting you should have a current
> > consumtion of about 1.3-1.6 A.You know my e-mail Mattias:Give me a line
> > and we can made up a sked.I copy many qrp-stations in the Stockholm
> > area here in Gothenburg with fine signals.Nice to have you in the
> > air with your newbuilt MKARS80.Welcome to the gang.
> > 73 de SM6MPA/Hans
> >
>

>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.435 / Virus Database: 271.1.1/2683 - Release Date: 02/12/10
07:35:00

1586. Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-18 14:27:07 UTC
From: Mattias
Topic: 1586 Message: 1586

Hi all..

Im asking if this display's is pincompatible with the one assembled with the kit, i have found two displays who seems to be compatible with the one shipped with the kit.

Only thing is what the ones i found have backlight also.. :)

I link the data pdf files for the displays..

First One:

http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf

costs about £8.42 (99:- SEK).

And here is one with blue backround and withe labels.

Hmm, seems to be same PSF file here.....

Maybe Steve can answer to this .. i guess the Display following the kit is 1602F, but maybee whey are pincompatible..

If soo i will brought one and get backlight.. :)

/Mattias

1588. Re: [mkars80] Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-18 20:04:32 UTC
From: Steve Drury
Topic: 1586 Message: 1588

Mattias,

Looks the same to me - here is the data sheet for the one supplied with the kit.

Steve G6ALU

----- Original Message -----
From: "Mattias" <sm0yyq@...>
To: <mkars80@...>
Sent: Thursday, February 18, 2010 2:27 PM
Subject: [mkars80] Display replacement.... :)

Hi all..

Im asking if this display's is pincompatible with the one assembled with the kit, i have found two displays who seems to be compatible with the one shipped with the kit.

Only thing is what the ones i found have backlight also.. :)

I link the data pdf files for the displays..

First One:

http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf

costs about £8.42 (99:- SEK).

And here is one with blue backround and withe labels.

Hmm, seems to be same PSF file here.....

Maybe Steve can answer to this .. i guess the Display following the kit is 1602F, but maybee whey are pincompatible..

If soo i will brought one and get backlight.. :)

/Mattias

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1589. Re: [mkars80] Display replacement for MKARS80.?

Yahoo group: mkars80
Date: 2010-02-18 20:24:30 UTC
From: Peter Fraser
Topic: 1589 Message: 1589

Hi Mattias

Your display looks compatible with the display supplied with Steve's NKARS80 kit. See data sheet here http://www.digchip.com/datasheets/parts/datasheet/371/PC1602F-pdf.php

Be aware that the LCD with backlight is 3 mm thicker so you will need to make changes when mounting the back lit display.

I'm looking to fit a back lit display to my MKARS80 but have not got a display yet.

73
Peter VK3ZPF

----- Original Message -----
From: Mattias
To: mkars80@...
Sent: Friday, February 19, 2010 1:41 AM
Subject: [mkars80] Display replacement for MKARS80.?

Hi all..

I wonder if i can use this display...

http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf

As a replacement for the display shipped with the kit.?

it hase a build in backlight so whats why i wonder.

and its also cheep .. costs about £8.42 .. (99:- SEK)..

the store also got a same display but with blue backround and white text :)

So steve, may u have a look at the PDF file and tell me if i can use what display on the kit.. :)

73's /Mattias

[Non-text portions of this message have been removed]

1590. Re: Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-18 22:15:41 UTC
From: Carl
Topic: 1586 Message: 1590

I have also been thinking about obtaining an LCD display with backlight. There is a wide range on an ebay site here:

http://cgi.ebay.co.uk/Character-LCD-Module-Display-16X2-1602-HD44780_W0QQitemZ200397282936QQcmdZViewItemQQptZUK_BOI_Electrical_Components_Supplies_ET?hash=item2ea89bde78

The datasheet is here:

http://www.egochina.net.cn/e-shop/ebay/Datasheet/JHD162A.pdf

Again, the pins looks to be compatible but I would appreciate any advice before I go ahead an order one from China!

72 de Carl DA6TEC

--- In mkars80@..., "Mattias" <sm0yyq@...> wrote:
>
> Hi all..
>
> Im asking if this display's is pincompatible with the one assembled with the kit, i have found two displays who seems to be compatible with the one shipped with the kit.
>
> Only thing is what the ones i found have backlight also.. :)
>
> I link the data pdf files for the displays..
>
> First One:
>
> http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf
>
> costs about £8.42 (99:- SEK).
>
> And here is one with blue backround and withe labels.
>
> Hmm, seems to be same PSF file here.....
>
> Maybe Steve can answer to this .. i guess the Display following the kit is 1602F, but maybee whey are pincompatible..
>
> If soo i will brought one and get backlight.. :)
>
> /Mattias
>

1591. Re: Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-19 14:09:20 UTC
From: Hasse
Topic: 1586 Message: 1591

Hello Mattias and all the other !
Today i bought the display (the blue-and white one) with backgroundlight, the one you whrote about in your message.You can see
a photo in my photo-files on this page.It works 100% OK.Best 73
de SM6MPA/Hasse

--- In mkars80@..., "Mattias" <sm0yyq@...> wrote:
>
> Hi all..
>
> Im asking if this display's is pincompatible with the one assembled with the kit, i have found two displays who seems to be compatible with the one shipped with the kit.
>
> Only thing is what the ones i found have backlight also.. :)
>
> I link the data pdf files for the displays..
>
> First One:
>
> http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf
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> costs about £8.42 (99:- SEK).
>
> And here is one with blue backround and withe labels.
>
> Hmm, seems to be same PSF file here.....
>
> Maybe Steve can answer to this .. i guess the Display following the kit is 1602F, but maybee whey are pincompatible..
>
> If soo i will brought one and get backlight.. :)
>
> /Mattias
>

1592. Re: [mkars80] Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-19 15:24:08 UTC
From: Steve Drury
Topic: 1586 Message: 1592

Sorry I've got attachments turned off so you never got the data sheet - I should have known better!

As you have discovered most of these displays will work with the MKARS80 - watch out for the pin-out as some of them are different. The best way of driving a backlight is from the 12V supply with a series resistor - don't omit this or you will blow the LEDs. If you run the backlight from the 5V supply the regulator is likely to overheat and shut-down.

Steve

----- Original Message -----
From: "Steve Drury" <g6alu@...>
To: <mkars80@...>
Sent: Thursday, February 18, 2010 8:04 PM
Subject: Re: [mkars80] Display replacement.... :)

Mattias,

Looks the same to me - here is the data sheet for the one supplied with the kit.

Steve G6ALU

----- Original Message -----
From: "Mattias" <sm0yyq@...>
To: <mkars80@...>
Sent: Thursday, February 18, 2010 2:27 PM
Subject: [mkars80] Display replacement.... :)

Hi all..

Im asking if this display's is pincompatible with the one assembled with the kit, i have found two displays who seems to be compatible with the one shipped with the kit.

Only thing is what the ones i found have backlight also.. :)

I link the data pdf files for the displays..

First One:

http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf

costs about ?8.42 (99:- SEK).

And here is one with blue backround and withe labels.

Hmm, seems to be same PSF file here.....

Maybe Steve can answer to this .. i guess the Display following the kit is 1602F, but maybee whey are pincompatible..

If soo i will brought one and get backlight.. :)

/Mattias

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1593. Re: Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-19 19:17:23 UTC
From: a_strong@btopenworld.com
Topic: 1586 Message: 1593

Hi Mattias et al - I fitted a back-lit display to my MKARS-80 because it is easier on my tired old eyes and because I had oneleft over from an earlier project. There is an image of what it looks like in my folder in the photos section.

However at the time I did not appreciate that the back-light would double the power consumed by the receiver. Not important if your are operating from the mains but significant if operating from batteries, so I fitted a switch to turn it off when the occasion demanded it.

The blue back-light sounds very cool and would fit in with my colour scheme very nicely!

G3WXI

--- In mkars80@..., "Mattias" <sm0yyq@...> wrote:
>
> Hi all..
>
> Im asking if this display's is pincompatible with the one assembled with the kit, i have found two displays who seems to be compatible with the one shipped with the kit.
>
> Only thing is what the ones i found have backlight also.. :)
>
> I link the data pdf files for the displays..
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> http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf
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> Hmm, seems to be same PSF file here.....
>
> Maybe Steve can answer to this .. i guess the Display following the kit is 1602F, but maybee whey are pincompatible..
>
> If soo i will brought one and get backlight.. :)
>
> /Mattias
>

1594. Re: Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-19 19:38:32 UTC
From: Mattias
Topic: 1586 Message: 1594

Thanks Hasse, and all others for the answer.

And yes Hasse, i got ur E-Mail as well, and the display light up as a chrismastree on christmas. :)

I will look forward to brought myself one as well..

But i seems to also got an issue of my radio drifting in freq.
I hade some nice skeds whis evening with some hams in sweden and, i like talked about 2-4 mins each time it was my turn and some of whem complaing about my freq drifting. :/

Maybee it was me who lay hand on the vfo whan i turned som "nub" on the radio i dont know, but i havent had this sort of problem before.

My radio does even feel hot after long talks...

Can i make som sort of ventilation holes in the side of radio to get the "hot" air out.?

/M

--- In mkars80@....uk, "Hasse" <sm6mpa@...> wrote:
>
> Hello Mattias and all the other !
> Today i bought the display (the blue-and white one) with backgroundlight, the one you whrote about in your message.You can see
> a photo in my photo-files on this page.It works 100% OK.Best 73
> de SM6MPA/Hasse
>
>
> --- In mkars80@..., "Mattias" <sm0yyq@> wrote:
> >
> > Hi all..
> >
> > Im asking if this display's is pincompatible with the one assembled with the kit, i have found two displays who seems to be compatible with the one shipped with the kit.
> >
> > Only thing is what the ones i found have backlight also.. :)
> >
> > I link the data pdf files for the displays..
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> > First One:
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> > http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf
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> > costs about £8.42 (99:- SEK).
> >
> > And here is one with blue backround and withe labels.

> >
> > Hmm, seems to be same PSF file here.....
> >
> > Maybe Steve can answer to this .. i guess the Display following the kit is 1602F, but maybee whey are pincompatible..
> >
> > If soo i will brought one and get backlight.. :)
> >
> > /Mattias
> >
>

1595. Re: [mkars80] Re: Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-19 20:13:20 UTC
From: Steve Drury
Topic: 1586 Message: 1595

Mattias - My radio never gets hot, with a long QSO you can feel a little warmth on the case around Q1. Are you sure Q1 bias is set correctly?

Steve G6ALU

----- Original Message -----
From: "Mattias" <sm0yyq@...>
To: <mkars80@...>
Sent: Friday, February 19, 2010 7:38 PM
Subject: [mkars80] Re: Display replacement.... :)

Thanks Hasse, and all others for the answer.

And yes Hasse, i got ur E-Mail as well, and the display light up as a chrismastree on christmas. :)

I will look forward to brought myself one as well..

But i seems to also got an issue of my radio drifting in freq.
I hade some nice skeds whis evening with some hams in sweden and, i like talked about 2-4 mins each time it was my turn and some of whem complaing about my freq drifting. :/

Maybee it was me who lay hand on the vfo whan i turned som "nub" on the radio i dont know, but i havent had this sort of problem before.

My radio does even feel hot after long talks...

Can i make som sort of ventilation holes in the side of radio to get the "hot" air out.?

/M

--- In mkars80@..., "Hasse" <sm6mpa@...> wrote:
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> Hello Mattias and all the other !
> Today i bought the display (the blue-and white one) with backgroundlight,
> the one you whrote about in your message.You can see
> a photo in my photo-files on this page.It works 100% OK.Best 73
> de SM6MPA/Hasse
>
>
> --- In mkars80@..., "Mattias" <sm0yyq@> wrote:
> >
> > Hi all..
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> > Im asking if this display's is pincompatible with the one assembled with
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> > one shipped with the kit.
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> > Maybe Steve can answer to this .. i guess the Display following the kit
> > is 1602F, but maybee whey are pincompatible..
> >
> > If soo i will brought one and get backlight.. :)
> >
> > /Mattias
> >
>

Yahoo! Groups Links

1596. Re: Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-19 21:32:20 UTC
From: Mattias
Topic: 1586 Message: 1596

Hi Steve, .. Hot and HOT.. u will not burn ur fingers if u set it where the Q1 is placed i can tell u..

But if i use the radio and talk for a while the whole chassie gets warmer.. :) but not so u burn ur fingers. :)

The bias i messured 271 as current and justered to about 322-323.

/M

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Mattias - My radio never gets hot, with a long QSO you can feel a little
> warmth on the case around Q1. Are you sure Q1 bias is set correctly?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Mattias" <sm0yyq@...>
> To: <mkars80@...>
> Sent: Friday, February 19, 2010 7:38 PM
> Subject: [mkars80] Re: Display replacement.... :)
>
>
>
> Thanks Hasse, and all others for the answer.
>
> And yes Hasse, i got ur E-Mail as well, and the display light up as a
> chrismastree on christmas. :)
>
> I will look forward to brought myself one as well..
>
> But i seems to also got an issue of my radio drifting in freq.
> I hade some nice skeds whis evening with some hams in sweden and, i like
> talked about 2-4 mins each time it was my turn and some of whem complaing
> about my freq drifting. :/
>
> Maybee it was me who lay hand on the vfo whan i turned som "nub" on the
> radio i dont know, but i havent had this sort of problem before.
>
> My radio does even feel hot after long talks...
>
> Can i make som sort of ventilation holes in the side of radio to get the
> "hot" air out.?
>
> /M

>
> --- In mkars80@..., "Hasse" <sm6mpa@> wrote:
> >
> > Hello Mattias and all the other !
> > Today i bought the display (the blue-and white one) with backgroundlight,
> > the one you whrote about in your message.You can see
> > a photo in my photo-files on this page.It works 100% OK.Best 73
> > de SM6MPA/Hasse
> >
> >
> > --- In mkars80@..., "Mattias" <sm0yyq@> wrote:
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> > > the kit, i have found two displays who seems to be compatible with the
> > > one shipped with the kit.
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> > > Only thing is what the ones i found have backlight also.. :)
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> > > Hmm, seems to be same PSF file here.....
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> > > Maybe Steve can answer to this .. i guess the Display following the kit
> > > is 1602F, but maybee whey are pincompatible..
> > >
> > > If soo i will brought one and get backlight.. :)
> > >
> > > /Mattias
> > >
> >
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

1597. Re: [mkars80] Re: Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-19 21:39:17 UTC
From: Steve Drury
Topic: 1586 Message: 1597

Probably nothing wrong then Mattias.

Steve

----- Original Message -----
From: "Mattias" <sm0yyq@...>
To: <mkars80@...>
Sent: Friday, February 19, 2010 9:32 PM
Subject: [mkars80] Re: Display replacement.... :)

Hi Steve, .. Hot and HOT.. u will not burn ur fingers if u set it where the
Q1 is placed i can tell u..

But if i use the radio and talk for a while the whole chassie gets warmer..
:) but not so u burn ur fingers. :)

The bias i messured 271 as current and justered to about 322-323.

/M

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Mattias - My radio never gets hot, with a long QSO you can feel a little
> warmth on the case around Q1. Are you sure Q1 bias is set correctly?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Mattias" <sm0yyq@...>
> To: <mkars80@...>
> Sent: Friday, February 19, 2010 7:38 PM
> Subject: [mkars80] Re: Display replacement.... :)
>
>
>
>
> Thanks Hasse, and all others for the answer.
>
> And yes Hasse, i got ur E-Mail as well, and the display light up as a
> chrismastree on christmas. :)
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> I will look forward to brought myself one as well..
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> But i seems to also got an issue of my radio drifting in freq.
> I hade some nice skeds whis evening with some hams in sweden and, i like
> talked about 2-4 mins each time it was my turn and some of whem complaing
> about my freq drifting. :/
>

> Maybee it was me who lay hand on the vfo whan i turned som "nub" on the
> radio i dont know, but i havent had this sort of problem before.
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> My radio does even feel hot after long talks...
>
> Can i make som sort of ventilation holes in the side of radio to get the
> "hot" air out.?
>
> /M
>
> --- In mkars80@..., "Hasse" <sm6mpa@> wrote:
> >
> > Hello Mattias and all the other !
> > Today i bought the display (the blue-and white one) with
> > backgroundlight,
> > the one you whrote about in your message.You can see
> > a photo in my photo-files on this page.It works 100% OK.Best 73
> > de SM6MPA/Hasse
> > >
> > >
> > > --- In mkars80@..., "Mattias" <sm0yyq@> wrote:
> > > >
> > > > Hi all..
> > > >
> > > > Im asking if this display's is pincompatible with the one assembled
> > > > with
> > > > the kit, i have found two displays who seems to be compatible with the
> > > > one shipped with the kit.
> > > >
> > > > Only thing is what the ones i found have backlight also.. :)
> > > >
> > > > I link the data pdf files for the displays..
> > > >
> > > > First One:
> > > >
> > > > http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf
> > > >
> > > > costs about ?8.42 (99:- SEK).
> > > >
> > > > And here is one with blue backround and withe labels.
> > > >
> > > > Hmm, seems to be same PSF file here.....
> > > >
> > > > Maybe Steve can answer to this .. i guess the Display following the
> > > > kit
> > > > is 1602F, but maybee whey are pincompatible..
> > > >
> > > > If soo i will brought one and get backlight.. :)
> > > >
> > > > /Mattias

> > >
> >
>
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

Yahoo! Groups Links

1598. Re: Display replacement.... :)

Yahoo group: mkars80
Date: 2010-02-19 21:56:28 UTC
From: Mattias
Topic: 1586 Message: 1598

Hi Steve..

Nah, .. i dont think so either.. :)

/M

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Probably nothing wrong then Mattias.
>
> Steve
>
> ----- Original Message -----
> From: "Mattias" <sm0yyq@...>
> To: <mkars80@...>
> Sent: Friday, February 19, 2010 9:32 PM
> Subject: [mkars80] Re: Display replacement.... :)
>
>
>
> Hi Steve, .. Hot and HOT.. u will not burn ur fingers if u set it where the
> Q1 is placed i can tell u..
>
> But if i use the radio and talk for a while the whole chassie gets warmer..
> :) but not so u burn ur fingers. :)
>
> The bias i messured 271 as current and justered to about 322-323.
>
> /M
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Mattias - My radio never gets hot, with a long QSO you can feel a little
> > warmth on the case around Q1. Are you sure Q1 bias is set correctly?
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Mattias" <sm0yyq@>
> > To: <mkars80@...>
> > Sent: Friday, February 19, 2010 7:38 PM
> > Subject: [mkars80] Re: Display replacement.... :)
> >
> >
> >
> >

> > Thanks Hasse, and all others for the answer.
> >
> > And yes Hasse, i got ur E-Mail as well, and the display light up as a
> > chrismastree on christmas. :)
> >
> > I will look forward to brought myself one as well..
> >
> > But i seems to also got an issue of my radio drifting in freq.
> > I hade some nice skeds whis evening with some hams in sweden and, i like
> > talked about 2-4 mins each time it was my turn and some of whem complaing
> > about my freq drifting. :/
> >
> > Maybee it was me who lay hand on the vfo whan i turned som "nub" on the
> > radio i dont know, but i havent had this sort of problem before.
> >
> > My radio does even feel hot after long talks...
> >
> > Can i make som sort of ventilation holes in the side of radio to get the
> > "hot" air out.?
> >
> > /M
> >
> > --- In mkars80@..., "Hasse" <sm6mpa@> wrote:
> > >
> > > Hello Mattias and all the other !
> > > Today i bought the display (the blue-and white one) with
> > > backgroundlight,
> > > the one you whrote about in your message.You can see
> > > a photo in my photo-files on this page.It works 100% OK.Best 73
> > > de SM6MPA/Hasse
> > >
> > >
> > > --- In mkars80@yahoogroups.co.uk, "Mattias" <sm0yyq@> wrote:
> > > >
> > > > Hi all..
> > > >
> > > > Im asking if this display's is pincompatible with the one assembled
> > > > with
> > > > the kit, i have found two displays who seems to be compatible with the
> > > > one shipped with the kit.
> > > >
> > > > Only thing is what the ones i found have backlight also.. :)
> > > >
> > > > I link the data pdf files for the displays..
> > > >
> > > > First One:
> > > >
> > > > http://www.kjell.com/filarkiv/SUPPORTPDF/81-90/90/90213/ATM1602B_datasheet.pdf
> > > >
> > > > costs about £8.42 (99:- SEK).

> > > >
> > > > And here is one with blue backround and withe labels.
> > > >
> > > > Hmm, seems to be same PSF file here.....
> > > >
> > > > Maybe Steve can answer to this .. i guess the Display following the
> > > > kit
> > > > is 1602F, but maybee whey are pincompatible..
> > > >
> > > > If soo i will brought one and get backlight.. :)
> > > >
> > > > /Mattias
> > > >
> > >
> >
> >
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> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> ------------------------------------
>
> Yahoo! Groups Links
>

1599. Todays frequency

Yahoo group: mkars80
Date: 2010-02-21 09:43:38 UTC
From: Steve Drury
Topic: 1599 Message: 1599

We are on 3.680 for this mornings net.

Steve

[Non-text portions of this message have been removed]

1600. New Radio Same Problem

Yahoo group: mkars80
Date: 2010-02-22 21:15:47 UTC
From: Jerome
Topic: 1600 Message: 1600

I finished another MKARS80 kit and have the same problem as before. I can only get 3.8 watts out and that is the same as the first radio I built. I though if I made another one I would get the 5 watts out like everyone else. I wouldn't think I would have made the same mistake on both radios. If anyone has any ideas please let me know. Everything tunes up properly according to the manual and I get good reports on the air.

1601. Re: [mkars80] New Radio Same Problem

Yahoo group: mkars80
Date: 2010-02-22 21:19:08 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1600 Message: 1601

3.8W to 5W is less than half an S point.
Don't wory about it.

On 22-Feb-10 21:15, Jerome wrote:
> I finished another MKARS80 kit and have the same problem as before. I can only get 3.8 watts out and that is the same as the first radio I built. I though if I made another one I would get the 5 watts out like everyone else. I wouldn't think I would have made the same mistake on both radios. If anyone has any ideas please let me know. Everything tunes up properly according to the manual and I get good reports on the air.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.733 / Virus Database: 271.1.1/2703 - Release Date: 02/22/10 07:34:00
>

--
Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.

1602. Re: New Radio Same Problem

Yahoo group: mkars80
Date: 2010-02-22 21:24:33 UTC
From: Jerome
Topic: 1600 Message: 1602

Nigel, The only reason I want the extra power is because I'm trying to use it as an exciter for an ALS 600 amp and that extra output means a lot.

--- In mkars80@..., Nigel Gunn G8IFF/W8IFF <nigel@...> wrote:
>
> 3.8W to 5W is less than half an S point.
> Don't wory about it.
>
> On 22-Feb-10 21:15, Jerome wrote:
> > I finished another MKARS80 kit and have the same problem as before. I can only get 3.8 watts out and that is the same as the first radio I built. I though if I made another one I would get the 5 watts out like everyone else. I wouldn't think I would have made the same mistake on both radios. If anyone has any ideas please let me know. Everything tunes up properly according to the manual and I get good reports on the air.
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
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> >
> >
> > No virus found in this incoming message.
> > Checked by AVG - www.avg.com
> > Version: 9.0.733 / Virus Database: 271.1.1/2703 - Release Date: 02/22/10 07:34:00
> >
>
> --
> Nigel A. Gunn, 1865 El Camino Drive, Xenia, OH 45385-1115, USA. tel +1 937 825 5032
> Amateur Radio G8IFF W8IFF (was KC8NHF), e-mail nigel@... www http://www.ngunn.net
> Member of ARRL, GQRP #11396, QRPARCI #11644, SOC #548, Flying Pigs QRP Club International #385,
> Dayton ARA #2128, AMSAT-NA LM-1691, AMSAT-UK 0182, MKARS, ALC, GCARES, XWARN.
>

1603. Re: New Radio Same Problem

Yahoo group: mkars80
Date: 2010-02-22 21:40:43 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 1600 Message: 1603

Assuming you mean the Ameritron ALS600 I suspect that you're going to need a lot more than an MKARS80 to drive it.
I know someone who has one and to get it to give 600W takes the better part of 100W drive power.

--- In mkars80@..., "Jerome" <w9tko@...> wrote:
>
> Nigel, The only reason I want the extra power is because I'm trying to use it as an exciter for an ALS 600 amp and that extra output means a lot.
>

1604. Re: [mkars80] Re: New Radio Same Problem

Yahoo group: mkars80
Date: 2010-02-22 22:10:27 UTC
From: Steve Drury
Topic: 1600 Message: 1604

Jerome,

I asked a recent builder (who I know I can rely on) to comment on the output of his rig, the answer was:

"An accurate 5.4W on voice peaks at 14V DC exactly. 3.4W at 12.9V (from my gelce battery) all at 1:1 SWR"

Can you raise your supply voltage a little? Keep it under 15V though so you don't cook anything.

Steve G6ALU

----- Original Message -----
From: "Jerome" <w9tko@...>
To: <mkars80@...>
Sent: Monday, February 22, 2010 9:24 PM
Subject: [mkars80] Re: New Radio Same Problem

> Nigel, The only reason I want the extra power is because I'm trying to use
> it as an exciter for an ALS 600 amp and that extra output means a lot.
>
> --- In mkars80@..., Nigel Gunn G8IFF/W8IFF <nigel@...>
> wrote:
>>
>> 3.8W to 5W is less than half an S point.
>> Don't wory about it.
>>
>> On 22-Feb-10 21:15, Jerome wrote:
>> > I finished another MKARS80 kit and have the same problem as before. I
>> > can only get 3.8 watts out and that is the same as the first radio I
>> > built. I though if I made another one I would get the 5 watts out like
>> > everyone else. I wouldn't think I would have made the same mistake on
>> > both radios. If anyone has any ideas please let me know. Everything
>> > tunes up properly according to the manual and I get good reports on the
>> > air.

1605. Re: New Radio Same Problem

Yahoo group: mkars80
Date: 2010-02-23 00:36:48 UTC
From: Jerome
Topic: 1600 Message: 1605

Steve,

I turned the power up to 14.9 volts and the output was 4.1 watts. I normally run it at 13.8 volts. I think that is close enough so I'll just run it that way. Thanks, Jerome

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Jerome,
>
> I asked a recent builder (who I know I can rely on) to comment on the output
> of his rig, the answer was:
>
> "An accurate 5.4W on voice peaks at 14V DC exactly. 3.4W at 12.9V (from my
> gelce battery) all at 1:1 SWR"
>
> Can you raise your supply voltage a little? Keep it under 15V though so you
> don't cook anything.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Jerome" <w9tko@...>
> To: <mkars80@...>
> Sent: Monday, February 22, 2010 9:24 PM
> Subject: [mkars80] Re: New Radio Same Problem
>
>
> > Nigel, The only reason I want the extra power is because I'm trying to use
> > it as an exciter for an ALS 600 amp and that extra output means a lot.
> >
> > --- In mkars80@..., Nigel Gunn G8IFF/W8IFF <nigel@>
> > wrote:
> >>
> >> 3.8W to 5W is less than half an S point.
> >> Don't wory about it.
> >>
> >> On 22-Feb-10 21:15, Jerome wrote:
> >> > I finished another MKARS80 kit and have the same problem as before. I
> >> > can only get 3.8 watts out and that is the same as the first radio I
> >> > built. I though if I made another one I would get the 5 watts out like
> >> > everyone else. I wouldn't think I would have made the same mistake on
> >> > both radios. If anyone has any ideas please let me know. Everything
> >> > tunes up properly according to the manual and I get good reports on the
> >> > air.
>

1606. Fuse blowing

Yahoo group: mkars80
Date: 2010-02-23 09:36:13 UTC
From: STEVE
Topic: 1606 Message: 1606

Had the radio working fine on receive on the test bench, boxed it up and the fuse blew - I don't think it was a short at Q1 to the case which suggests a new short somewhere else.

I've now taken it out of the case and also taken off the board supports (which link the two ground planes)

Can anyone tell me what resistance they see across the power supply leads to help me track it down? I'm now seeing one Ohm which can't be right.

Steve G0KYA

1607. RE: [mkars80] Fuse blowing

Yahoo group: mkars80
Date: 2010-02-23 11:52:16 UTC
From: Simon Robinson
Topic: 1606 Message: 1607

No, 1 OHM is definitely wrong!

The resistance to expect is noted in the manual I seem to remember.

It was about 2K I think.

Simon M5POO

From: mkars80@... [mailto:mkars80@...] On Behalf
Of STEVE
Sent: 23 February 2010 09:36
To: mkars80@...
Subject: [mkars80] Fuse blowing

Had the radio working fine on receive on the test bench, boxed it up and the
fuse blew - I don't think it was a short at Q1 to the case which suggests a
new short somewhere else.

I've now taken it out of the case and also taken off the board supports
(which link the two ground planes)

Can anyone tell me what resistance they see across the power supply leads to
help me track it down? I'm now seeing one Ohm which can't be right.

Steve G0KYA

[Non-text portions of this message have been removed]

1608. Re: [mkars80] Fuse blowing

Yahoo group: mkars80
Date: 2010-02-23 13:11:35 UTC
From: g6alu@tiscali.co.uk
Topic: 1606 Message: 1608

Check that the washers on the potentiometers aren't causing shorts to nearby tracks - I've seen this on a few radios.

Its strange that they don't normally come near any tracks but on occasion they can break slip to one side and short +12V to ground.

Steve G6ALU

>----Original Message----
>From: steve@...
>Date: 23/02/2010 9:36
>To: <mkars80@...>
>Subj: [mkars80] Fuse blowing
>
>Had the radio working fine on receive on the test bench, boxed it up and the fuse blew - I don't think it was a short at Q1 to the case which suggests a new short somewhere else.
>
>I've now taken it out of the case and also taken off the board supports (which link the two ground planes)
>
>Can anyone tell me what resistance they see across the power supply leads to help me track it down? I'm now seeing one Ohm which can't be right.
>
>Steve G0KYA
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
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>

1609. Fuse blowing - panic over

Yahoo group: mkars80
Date: 2010-02-23 14:41:25 UTC
From: STEVE
Topic: 1609 Message: 1609

Hi,

Well, I stripped the board out of the box, took the display off and went over it with a fine tooth comb. I cut any leads that looked a little too long and got a small screwdriver and cleaned between any tracks that looked a bit dubious. Not sure quite where the problem lay but all sorted.

Upshot is that it is now working properly - all boxed up with a cheapy chinese base microphone off EBay (which came with two small rocks in a piece of Chinese newspaper to weigh it down!)

I aligned it as best I could and first QSO was (accidentally) with the 80m homebrew net just before lunch. I was congratulated on the audio and received 55-58 reports from around the UK.

So ... the congratulations really belong to the designers and not the idiot builder!

Well done and many thanks! I've just posted a pic and update on my blog at http://g0kya.blogspot.com/2010/02/mkars-80-lsb-qrp-transceiver.html

Steve G0KYA

1610. Re: Components

Yahoo group: mkars80
Date: 2010-02-24 08:45:47 UTC
From: Simon Robinson
Topic: 1610 Message: 1610

Hi all

I have a couple of suggestions for components for your MKARS80!

Internal Speaker - Farnell sell a truly remarkable little speaker; the part code is 176-1629. The speaker is 8 ohms and will handle 1.5W. It is only 5mm thick and 25mm round so it will fit on the front panel between the board and the panel - mine is to the right of the display. The audio quality and power output of this beastie is remarkable - almost unbelievable. If you run the speaker with no case it has almost no output as the sound from the back cancels the sound from the front. Simply holding it in your hand, wrapping your thumb and forefinger round it in a circle makes it come to life; no need for a baffle.

Backlit Display - Maplin Electronics sell a display that is virtually identical to the one supplied with your kit except that it is slightly thicker and backlit. The code is N27AZ but to use it on the kit you will need to mount the board a few millimetres further away from the panel - watch your drilling for the side panel. Don't run it off the internal 5V regulator or the latter will quickly complain. Instead fit a resistor and switch and run it off 12V - you could fit another 5V regulator too.

I'm delighted with my MKARS80 - a bit fiddly to build with almost 50 year old eyes but I have a desk magnifier which is a godsend. It actually worked first time which is even better.

Thanks to the team at MKARS for a great little radio.

Regards

Simon M5POO/G8POO

[Non-text portions of this message have been removed]

1611. Carl's success

Yahoo group: mkars80
Date: 2010-02-24 20:12:09 UTC
From: Steve Drury
Topic: 1611 Message: 1611

Carl DA6TEC emailed me this evening, I've copied his email here with his permission:

"Steve,

Just wanted to let you know that the MKARS80 is fantastic.

Haven't switched a 'black box' on since my first MKARS80 QSO 2 days ago. Getting good 57-59 reports throughout Europe and I have just made my 60th QSO and a tally of 19 countries so far! Best 'DX' so far 4500Km.

This is fun!

Kind Regards

Carl"

I think he has had some success!
Steve G6ALU

[Non-text portions of this message have been removed]

1612. Re: Carl's success

Yahoo group: mkars80
Date: 2010-02-24 20:30:11 UTC
From: mark
Topic: 1611 Message: 1612

well done carl and by the way he is on 3.767 now 20.29 about a s2 but not to loud
mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Carl DA6TEC emailed me this evening, I've copied his email here with his permission:
>
> "Steve,
>
> Just wanted to let you know that the MKARS80 is fantastic.
>
> Haven't switched a 'black box' on since my first MKARS80 QSO 2 days ago. Getting good 57-59 reports throughout Europe and I have just made my 60th QSO and a tally of 19 countries so far! Best 'DX' so far 4500Km.
>
> This is fun!
>
> Kind Regards
>
> Carl"
>
> I think he has had some success!
> Steve G6ALU
>
>
> [Non-text portions of this message have been removed]
>

1613. Re: Carl's success

Yahoo group: mkars80
Date: 2010-02-24 20:44:40 UTC
From: Carl
Topic: 1611 Message: 1613

Thanks Steve and Mark,

Having some fun with the MKARS80 right now. If anyone fancies a MKARS80 to MKARS80 QSO I will be around 3.690Mhz +- 10 KHz calling CQ until 2130 UTC this evening.

72 Carl
DA6TEC

--- In mkars80@yahoogroups.co.uk, "mark" <mw3hqt@...> wrote:
>
> well done carl and by the way he is on 3.767 now 20.29 about a s2 but not to loud
> mark 2w0jmk
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Carl DA6TEC emailed me this evening, I've copied his email here with his permission:
> >
> > "Steve,
> >
> > Just wanted to let you know that the MKARS80 is fantastic.
> >
> > Haven't switched a 'black box' on since my first MKARS80 QSO 2 days ago. Getting good 57-59 reports throughout Europe and I have just made my 60th QSO and a tally of 19 countries so far! Best 'DX' so far 4500Km.
> >
> > This is fun!
> >
> > Kind Regards
> >
> > Carl"
> >
> > I think he has had some success!
> > Steve G6ALU
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

1614. Re: Components

Yahoo group: mkars80
Date: 2010-02-25 00:26:33 UTC
From: a_strong@btopenworld.com
Topic: 1610 Message: 1614

Hi Simon - I completed my MKARS-80 a couple of weeks ago and this speaker is exactly what I have been looking for. Do Farnell still have a minimum order charge for non-trade customers do you know?

I was a professional customer of theirs for some 50 years so with the dirth of retail component suppliers it is frustrating not to be able to buy from the trade distributors.

The bottom of the enclosure is earmarked for 10 x AA NiMH cells so I do not really want to use this valuable space for a large speaker.

Alan

--- In mkars80@..., "Simon Robinson" <simon@...> wrote:
>
> Hi all
>
>
>
> I have a couple of suggestions for components for your MKARS80!
>
>
>
> Internal Speaker - Farnell sell a truly remarkable little speaker; the part
> code is 176-1629. The speaker is 8 ohms and will handle 1.5W. It is only
> 5mm thick and 25mm round so it will fit on the front panel between the board
> and the panel - mine is to the right of the display. The audio quality and
> power output of this beastie is remarkable - almost unbelievable. If you
> run the speaker with no case it has almost no output as the sound from the
> back cancels the sound from the front. Simply holding it in your hand,
> wrapping your thumb and forefinger round it in a circle makes it come to
> life; no need for a baffle.
>
>
>
> Backlit Display - Maplin Electronics sell a display that is virtually
> identical to the one supplied with your kit except that it is slightly
> thicker and backlit. The code is N27AZ but to use it on the kit you will
> need to mount the board a few millimetres further away from the panel -
> watch your drilling for the side panel. Don't run it off the internal 5V
> regulator or the latter will quickly complain. Instead fit a resistor and
> switch and run it off 12V - you could fit another 5V regulator too.
>
>
>
> I'm delighted with my MKARS80 - a bit fiddly to build with almost 50 year
> old eyes but I have a desk magnifier which is a godsend. It actually worked

> first time which is even better.
>
>
>
> Thanks to the team at MKARS for a great little radio.
>
>
>
> Regards
>
>
>
> Simon M5POO/G8POO
>
>
>
> [Non-text portions of this message have been removed]
>

1615. Re: Components

Yahoo group: mkars80
Date: 2010-02-25 09:33:46 UTC
From: a_strong@btopenworld.com
Topic: 1610 Message: 1615

Hi Simon - I have been in touch with the manufacturers who confirm that they also sell their product to Maplins who market it under their Part number N97FU priced at £2.99.

Regards - Alan G3WXI

--- In mkars80@yahoogroups.co.uk, "Simon Robinson" <simon@...> wrote:
>
> Hi all
>
>
>
> I have a couple of suggestions for components for your MKARS80!
>
>
>
> Internal Speaker - Farnell sell a truly remarkable little speaker; the part
> code is 176-1629. The speaker is 8 ohms and will handle 1.5W. It is only
> 5mm thick and 25mm round so it will fit on the front panel between the board
> and the panel - mine is to the right of the display. The audio quality and
> power output of this beastie is remarkable - almost unbelievable. If you
> run the speaker with no case it has almost no output as the sound from the
> back cancels the sound from the front. Simply holding it in your hand,
> wrapping your thumb and forefinger round it in a circle makes it come to
> life; no need for a baffle.
>
>
>
> Backlit Display - Maplin Electronics sell a display that is virtually
> identical to the one supplied with your kit except that it is slightly
> thicker and backlit. The code is N27AZ but to use it on the kit you will
> need to mount the board a few millimetres further away from the panel -
> watch your drilling for the side panel. Don't run it off the internal 5V
> regulator or the latter will quickly complain. Instead fit a resistor and
> switch and run it off 12V - you could fit another 5V regulator too.
>
>
>
> I'm delighted with my MKARS80 - a bit fiddly to build with almost 50 year
> old eyes but I have a desk magnifier which is a godsend. It actually worked
> first time which is even better.
>
>
>
> Thanks to the team at MKARS for a great little radio.
>

>
>
> Regards
>
>
>
> Simon M5POO/G8POO
>
>
>
> [Non-text portions of this message have been removed]
>

1616. RE: [mkars80] Re: Components

Yahoo group: mkars80
Date: 2010-02-25 19:14:43 UTC
From: Simon Robinson
Topic: 1610 Message: 1616

Hi Alan

Handy to know that Maplin sell it too!

I☐ve had an account with Farnell for almost 30 years ☐ the website even allows me to order ONE speaker with free delivery ☐ I haven☐t tried paying with a card.

Based on how wonderful this speaker is I ordered another 5 from Farnell to keep ☐on hand☐.

Good luck with the speaker ☐ I used a ☐Q-Max☐ 7/8 inch cutter to make a nice round hole ☐ 1 inch would have been ideal but the smaller size seems to work just as well ☐ it seems size is not to important in this case ;-)

Best wishes

Simon M5POO

From: mkars80@... [mailto:mkars80@...] On Behalf
Of a_strong@...
Sent: 25 February 2010 09:34
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Components

Hi Simon - I have been in touch with the manufacturers who confirm that they
also sell their product to Maplins who market it under their Part number
N97FU priced at £2.99.

Regards - Alan G3WXI

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
"Simon Robinson" <simon@...> wrote:
>
> Hi all
>
>
>
> I have a couple of suggestions for components for your MKARS80!
>
>
>
> Internal Speaker - Farnell sell a truly remarkable little speaker; the
part
> code is 176-1629. The speaker is 8 ohms and will handle 1.5W. It is only
> 5mm thick and 25mm round so it will fit on the front panel between the
board

> and the panel - mine is to the right of the display. The audio quality and
> power output of this beastie is remarkable - almost unbelievable. If you
> run the speaker with no case it has almost no output as the sound from the
> back cancels the sound from the front. Simply holding it in your hand,
> wrapping your thumb and forefinger round it in a circle makes it come to
> life; no need for a baffle.
>
>
>
> Backlit Display - Maplin Electronics sell a display that is virtually
> identical to the one supplied with your kit except that it is slightly
> thicker and backlit. The code is N27AZ but to use it on the kit you will
> need to mount the board a few millimetres further away from the panel -
> watch your drilling for the side panel. Don't run it off the internal 5V
> regulator or the latter will quickly complain. Instead fit a resistor and
> switch and run it off 12V - you could fit another 5V regulator too.
>
>
>
> I'm delighted with my MKARS80 - a bit fiddly to build with almost 50 year
> old eyes but I have a desk magnifier which is a godsend. It actually
worked
> first time which is even better.
>
>
>
> Thanks to the team at MKARS for a great little radio.
>
>
>
> Regards
>
>
>
> Simon M5POO/G8POO
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

1617. Re: [mkars80] Re: Components

Yahoo group: mkars80
Date: 2010-02-25 19:40:13 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1610 Message: 1617

Anybody know where Q-Max has gone/
Seems they moved out of Bletchley a couple of years ago.

On 25-Feb-10 19:14, Simon Robinson wrote:
I used a ?Q-Max? 7/8 inch cutter

1618. RE: [mkars80] Re: Components

Yahoo group: mkars80
Date: 2010-02-25 20:56:52 UTC
From: Simon Robinson
Topic: 1610 Message: 1618

No – but Google says lots of companies still sell their kit.

My trusty Farnell do and also http://www.lawson-his.co.uk.

I’m sure RS Components have their own version – no doubt just rebranded.

Simon

From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf Of Nigel Gunn G8IFF/W8IFF
Sent: 25 February 2010 19:40
To: mkars80@...
Cc: Simon Robinson
Subject: Re: [mkars80] Re: Components

Anybody know where Q-Max has gone/
Seems they moved out of Bletchley a couple of years ago.

On 25-Feb-10 19:14, Simon Robinson wrote:
I used a ?Q-Max? 7/8 inch cutter

[Non-text portions of this message have been removed]

1619. feedback

Yahoo group: mkars80
Date: 2010-02-27 18:24:01 UTC
From: robpegsuk
Topic: 1619 Message: 1619

I'm hearing myself on Tx out of the speaker/headphones, reports are good clean audio, good grounding and ferrite clamps on all leads.

is this down to the cheap mic? anyone else have the problem, any help on this would be great,

Rob

1620. RE: [mkars80] Digest Number 388

Yahoo group: mkars80
Date: 2010-02-27 21:49:20 UTC
From: Peter LB0K
Topic: 1620 Message: 1620

Yes
Where are Q-Max these days?

You could check through the Farnell and/or RS catalogues for hole cutters,
I've purchased somethere, made by a German company.

Peter, LB0K - G8CKB
Forland, 5379, Sotra

-----Original Message-----
From: mkars80@... [mailto:mkars80@...]
Sent: 26. februar 2010 15:25
To: mkars80@...
Subject: [mkars80] Digest Number 388

There are 3 messages in this issue.

Topics in this digest:

1.1. Re: Components
From: Simon Robinson
1.2. Re: Components
From: Nigel Gunn G8IFF/W8IFF
1.3. Re: Components
From: Simon Robinson

Messages

1.1. Re: Components
Posted by: "Simon Robinson" simon@... m5poo
Date: Thu Feb 25, 2010 7:32 pm

Hi Alan

Handy to know that Maplin sell it too!

I☐ve had an account with Farnell for almost 30 years ☐ the website even allows me to order ONE speaker with free delivery ☐ I haven☐t tried paying with a card.

Based on how wonderful this speaker is I ordered another 5 from Farnell to keep ☐on hand☐.

Good luck with the speaker ☐ I used a ☐Q-Max☐ 7/8 inch cutter to make a nice round hole ☐ 1 inch would have been ideal but the smaller size seems to work just as well ☐ it seems size is not to important in this case ;-)

Best wishes

Simon M5POO

From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
Of a_strong@btopenworld.com
Sent: 25 February 2010 09:34
To: mkars80@...
Subject: [mkars80] Re: Components

Hi Simon - I have been in touch with the manufacturers who confirm that they
also sell their product to Maplins who market it under their Part number
N97FU priced at £2.99.

Regards - Alan G3WXI

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
"Simon Robinson" <simon@...> wrote:
>
> Hi all
>
>
>
> I have a couple of suggestions for components for your MKARS80!
>
>
>
> Internal Speaker - Farnell sell a truly remarkable little speaker; the
part
> code is 176-1629. The speaker is 8 ohms and will handle 1.5W. It is only
> 5mm thick and 25mm round so it will fit on the front panel between the
board
> and the panel - mine is to the right of the display. The audio quality and
> power output of this beastie is remarkable - almost unbelievable. If you
> run the speaker with no case it has almost no output as the sound from the
> back cancels the sound from the front. Simply holding it in your hand,
> wrapping your thumb and forefinger round it in a circle makes it come to
> life; no need for a baffle.
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>
> Backlit Display - Maplin Electronics sell a display that is virtually
> identical to the one supplied with your kit except that it is slightly
> thicker and backlit. The code is N27AZ but to use it on the kit you will
> need to mount the board a few millimetres further away from the panel -
> watch your drilling for the side panel. Don't run it off the internal 5V
> regulator or the latter will quickly complain. Instead fit a resistor and
> switch and run it off 12V - you could fit another 5V regulator too.
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>
> I'm delighted with my MKARS80 - a bit fiddly to build with almost 50 year
> old eyes but I have a desk magnifier which is a godsend. It actually
worked

> first time which is even better.
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>
> Thanks to the team at MKARS for a great little radio.
>
>
>
> Regards
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>
>
> Simon M5POO/G8POO
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

Messages in this topic (6)

1.2. Re: Components
Posted by: "Nigel Gunn G8IFF/W8IFF" nigel@... nigelgunn99
Date: Thu Feb 25, 2010 7:41 pm

Anybody know where Q-Max has gone/
Seems they moved out of Bletchley a couple of years ago.

On 25-Feb-10 19:14, Simon Robinson wrote:
I used a ï¿½Q-Maxï¿½ 7/8 inch cutter

Messages in this topic (6)

1.3. Re: Components
Posted by: "Simon Robinson" simon@....uk m5poo
Date: Thu Feb 25, 2010 8:57 pm

No - but Google says lots of companies still sell their kit.

My trusty Farnell do and also http://www.lawson-his.co.uk.

I´m sure RS Components have their own version - no doubt just rebranded.

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Nigel Gunn G8IFF/W8IFF
Sent: 25 February 2010 19:40
To: mkars80@...
Cc: Simon Robinson
Subject: Re: [mkars80] Re: Components

Anybody know where Q-Max has gone/
Seems they moved out of Bletchley a couple of years ago.

On 25-Feb-10 19:14, Simon Robinson wrote:
I used a ï¿½Q-Maxï¿½ 7/8 inch cutter

[Non-text portions of this message have been removed]

Messages in this topic (6)

Yahoo! Groups Links

1621. Re: [mkars80] Re: Carl's success

Yahoo group: mkars80
Date: 2010-02-28 10:00:55 UTC
From: Steve Drury
Topic: 1611 Message: 1621

Morning Carl,

You were heard on the 3.690 net this morning, unfortunately QRM was too severe to get back to you - I tried QSYing but chose an occupied frequency which finished the net!

How are you getting on...?

Steve G6ALU

----- Original Message -----
From: "Carl" <da6tec@...>
To: <mkars80@...>
Sent: Wednesday, February 24, 2010 8:44 PM
Subject: [mkars80] Re: Carl's success

> Thanks Steve and Mark,
>
> Having some fun with the MKARS80 right now. If anyone fancies a MKARS80
> to MKARS80 QSO I will be around 3.690Mhz +- 10 KHz calling CQ until 2130
> UTC this evening.
>
> 72 Carl
> DA6TEC

1622. Thanks Glyn (G3ZSV)

Yahoo group: mkars80
Date: 2010-03-01 18:26:20 UTC
From: robpegsuk
Topic: 1622 Message: 1622

Thanks for the contact this evening Glyn on my Mkars80,form the city of bath.
Rob M0TFO

1624. Re: [mkars80] feedback

Yahoo group: mkars80
Date: 2010-03-01 18:38:44 UTC
From: Steve Drury
Topic: 1619 Message: 1624

Rob,
Sorry I hadn't got back to you sooner....

There will be a small amount of microphone audio coming out of the speaker - this leaks past the mute transistor Q3. You may try reducing the value of R5 to say 2K2 to turn it on "harder" - if you do let me know the outcome.

Steve G6ALU

----- Original Message -----
From: "robpegsuk" <robpegs@...>
To: <mkars80@...>
Sent: Saturday, February 27, 2010 6:24 PM
Subject: [mkars80] feedback

> I'm hearing myself on Tx out of the speaker/headphones, reports are good
> clean audio, good grounding and ferrite clamps on all leads.
>
> is this down to the cheap mic? anyone else have the problem, any help on
> this would be great,
>
> Rob
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

1625. Re: [mkars80] feedback

Yahoo group: mkars80
Date: 2010-03-01 19:17:32 UTC
From: Robert Styles
Topic: 1619 Message: 1625

sorry not great at electronics. well saying that it did work first time, can i just check..
2k2 ohm or 2.2k, sorry to be soo thick..
On 1 Mar 2010, at 18:38, Steve Drury wrote:

> Rob,
> Sorry I hadn't got back to you sooner....
>
> There will be a small amount of microphone audio coming out of the speaker -
> this leaks past the mute transistor Q3. You may try reducing the value of R5
> to say 2K2 to turn it on "harder" - if you do let me know the outcome.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "robpegsuk" <robpegs@...>
> To: <mkars80@...>
> Sent: Saturday, February 27, 2010 6:24 PM
> Subject: [mkars80] feedback
>
> > I'm hearing myself on Tx out of the speaker/headphones, reports are good
> > clean audio, good grounding and ferrite clamps on all leads.
> >
> > is this down to the cheap mic? anyone else have the problem, any help on
> > this would be great,
> >
> > Rob
> >
> >
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> > Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

1626. Re: [mkars80] feedback

Yahoo group: mkars80
Date: 2010-03-01 20:34:42 UTC
From: Steve Drury
Topic: 1619 Message: 1626

Now this comes about from me assuming everyone knows the shorthand for component values, explanation:

2K2 is the same as 2.2K Ohms or 22,000 Ohms, similarly 4n7 is 4.7nF or 4700pF.

Hope this explains?

Steve G6ALU

----- Original Message -----
From: "Robert Styles" <robpegs@...>
To: <mkars80@...>
Sent: Monday, March 01, 2010 7:17 PM
Subject: Re: [mkars80] feedback

> sorry not great at electronics. well saying that it did work first time,
> can i just check.. 2k2 ohm or 2.2k, sorry to be soo thick..
> On 1 Mar 2010, at 18:38, Steve Drury wrote:
>
>> Rob,
>> Sorry I hadn't got back to you sooner....
>>
>> There will be a small amount of microphone audio coming out of the
>> speaker -
>> this leaks past the mute transistor Q3. You may try reducing the value of
>> R5
>> to say 2K2 to turn it on "harder" - if you do let me know the outcome.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "robpegsuk" <robpegs@...>
>> To: <mkars80@...>
>> Sent: Saturday, February 27, 2010 6:24 PM
>> Subject: [mkars80] feedback
>>
>> > I'm hearing myself on Tx out of the speaker/headphones, reports are
>> > good
>> > clean audio, good grounding and ferrite clamps on all leads.
>> >
>> > is this down to the cheap mic? anyone else have the problem, any help
>> > on
>> > this would be great,
>> >
>> > Rob

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> [Non-text portions of this message have been removed]
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1627. RE: [mkars80] feedback

Yahoo group: mkars80
Date: 2010-03-02 09:34:31 UTC
From: Ray Stringfellow
Topic: 1619 Message: 1627

Steve ,
sticky 0 key? 2k2 = 2200 Ohms
Ray

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: Monday, March 01, 2010 8:35 PM
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] feedback

Now this comes about from me assuming everyone knows the shorthand for
component values, explanation:

2K2 is the same as 2.2K Ohms or 22,000 Ohms, similarly 4n7 is 4.7nF or
4700pF.

Hope this explains?

Steve G6ALU

----- Original Message -----
From: "Robert Styles" <robpegs@hotmail. <mailto:robpegs%40hotmail.com> com>
To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
Sent: Monday, March 01, 2010 7:17 PM
Subject: Re: [mkars80] feedback

> sorry not great at electronics. well saying that it did work first time,
> can i just check.. 2k2 ohm or 2.2k, sorry to be soo thick..
> On 1 Mar 2010, at 18:38, Steve Drury wrote:
>
>> Rob,
>> Sorry I hadn't got back to you sooner....
>>
>> There will be a small amount of microphone audio coming out of the
>> speaker -
>> this leaks past the mute transistor Q3. You may try reducing the value of

>> R5
>> to say 2K2 to turn it on "harder" - if you do let me know the outcome.
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "robpegsuk" <robpegs@hotmail. <mailto:robpegs%40hotmail.com> com>
>> To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
>> Sent: Saturday, February 27, 2010 6:24 PM

>> Subject: [mkars80] feedback
>>
>> > I'm hearing myself on Tx out of the speaker/headphones, reports are
>> > good
>> > clean audio, good grounding and ferrite clamps on all leads.
>> >
>> > is this down to the cheap mic? anyone else have the problem, any help
>> > on
>> > this would be great,
>> >
>> > Rob
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[Non-text portions of this message have been removed]

1628. RE: [mkars80] feedback

Yahoo group: mkars80
Date: 2010-03-02 13:05:39 UTC
From: g6alu@tiscali.co.uk
Topic: 1619 Message: 1628

Thanks Ray - not so much a sticky 0 key more like insanity!

Steve

>----Original Message----
>From: g4tzr@...
>Date: 02/03/2010 9:34
>To: <mkars80@...>
>Subj: RE: [mkars80] feedback
>
>Steve ,
> sticky 0 key? 2k2 = 2200 Ohms
> Ray
>
>-----Original Message-----
>From: mkars80@... [mailto:mkars80@...] On
Behalf
>Of Steve Drury
>Sent: Monday, March 01, 2010 8:35 PM
>To: mkars80@...
>Subject: Re: [mkars80] feedback
>
>
>
>
>Now this comes about from me assuming everyone knows the shorthand
for
>component values, explanation:
>
>2K2 is the same as 2.2K Ohms or 22,000 Ohms, similarly 4n7 is 4.7nF
or
>4700pF.
>
>Hope this explains?
>
>Steve G6ALU
>
>----- Original Message -----
>From: "Robert Styles" <robpegs@hotmail. <mailto:robpegs%40hotmail.
com> com>
>To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
>Sent: Monday, March 01, 2010 7:17 PM
>Subject: Re: [mkars80] feedback
>
>> sorry not great at electronics. well saying that it did work first

time,
>> can i just check.. 2k2 ohm or 2.2k, sorry to be soo thick..
>> On 1 Mar 2010, at 18:38, Steve Drury wrote:
>>
>>> Rob,
>>> Sorry I hadn't got back to you sooner....
>>>
>>> There will be a small amount of microphone audio coming out of
the
>>> speaker -
>>> this leaks past the mute transistor Q3. You may try reducing the
value of
>
>>> R5
>>> to say 2K2 to turn it on "harder" - if you do let me know the
outcome.
>>>
>>> Steve G6ALU
>>>
>>> ----- Original Message -----
>>> From: "robpegsuk" <robpegs@hotmail. <mailto:robpegs%40hotmail.com>
com>
>>> To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.
uk>
>>> Sent: Saturday, February 27, 2010 6:24 PM
>>> Subject: [mkars80] feedback
>>>
>>> > I'm hearing myself on Tx out of the speaker/headphones, reports
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>>> > clean audio, good grounding and ferrite clamps on all leads.
>>> >
>>> > is this down to the cheap mic? anyone else have the problem, any
help
>>> > on
>>> > this would be great,
>>> >
>>> > Rob
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>Yahoo! Groups Links
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1629. Croos Atlantic QSO

Yahoo group: mkars80
Date: 2010-03-05 00:04:01 UTC
From: Carl
Topic: 1629 Message: 1629

Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.

K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)

Distance 8909 Km
RST received: 55
MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
Antenna: Doublet 50m long at 15m above the garden

Spotted on DX Cluster. This QSO has made my week!

72 Carl
DA6TEC
www.earthcq.net

1630. Cross Atlantic QSO with MKARS80

Yahoo group: mkars80
Date: 2010-03-05 00:00:12 UTC
From: Carl
Topic: 1630 Message: 1630

Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.

K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)

Distance 8909 Km
RST received: 55
MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
Antenna: Doublet 50m long at 15m above the garden

Spotted on DX Cluster. This QSO has made my week!

72 Carl
DA6TEC
www.earthcq.net

1631. Re: Croos Atlantic QSO

Yahoo group: mkars80
Date: 2010-03-05 07:10:55 UTC
From: dovalep
Topic: 1629 Message: 1631

--- In mkars80@..., "Carl" <da6tec@...> wrote:
>
> Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.
>
> K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)
>
> Distance 8909 Km
> RST received: 55
> MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
> Antenna: Doublet 50m long at 15m above the garden
>
> Spotted on DX Cluster. This QSO has made my week!
>
> 72 Carl
> DA6TEC
> www.earthcq.net
>

1632. Re: Croos Atlantic QSO

Yahoo group: mkars80
Date: 2010-03-05 07:05:46 UTC
From: dovalep
Topic: 1629 Message: 1632

Well done Carl !
Congratulations!
Dov 4Z5NU 73!

--- In mkars80@yahoogroups.co.uk, "Carl" <da6tec@...> wrote:
>
> Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.
>
> K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)
>
> Distance 8909 Km
> RST received: 55
> MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
> Antenna: Doublet 50m long at 15m above the garden
>
> Spotted on DX Cluster. This QSO has made my week!
>
> 72 Carl
> DA6TEC
> www.earthcq.net
>

1633. Re: Croos Atlantic QSO

Yahoo group: mkars80
Date: 2010-03-05 07:10:33 UTC
From: dovalep
Topic: 1629 Message: 1633

Well done !
congratulations !
Dov 4Z5NU 73!

--- In mkars80@....uk, "Carl" <da6tec@...> wrote:
>
> Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.
>
> K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)
>
> Distance 8909 Km
> RST received: 55
> MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
> Antenna: Doublet 50m long at 15m above the garden
>
> Spotted on DX Cluster. This QSO has made my week!
>
> 72 Carl
> DA6TEC
> www.earthcq.net
>

1634. Re: [mkars80] Croos Atlantic QSO

Yahoo group: mkars80
Date: 2010-03-05 08:21:24 UTC
From: Clive Reynolds
Topic: 1629 Message: 1634

Also just worked K6AAX/VY2 with my MKARS80 @ 0807 GMT for my first trans-Atlantic.

My report 57 with 20m inverted L (10m vertical) close to the house.

73 Clive G3GJA

----- Original Message -----
From: Carl
To: mkars80@...
Sent: Friday, March 05, 2010 12:04 AM
Subject: [mkars80] Croos Atlantic QSO

Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.

K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)

Distance 8909 Km
RST received: 55
MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
Antenna: Doublet 50m long at 15m above the garden

Spotted on DX Cluster. This QSO has made my week!

72 Carl
DA6TEC
www.earthcq.net

HESH Computer Services Ltd
12 Louis Pearlman Centre
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[Non-text portions of this message have been removed]

1635. Facebook group

Yahoo group: mkars80
Date: 2010-03-05 22:40:25 UTC
From: robpegsuk
Topic: 1635 Message: 1635

just a quick note,for facebook users, i have just made a group called MKARS80, for Skeds tips etc, to run along side this great group.
so if your on Facebook search for the MKARS80 group.
Rob

1636. Re: Croos Atlantic QSO

Yahoo group: mkars80
Date: 2010-03-06 13:15:00 UTC
From: Hasse
Topic: 1629 Message: 1636

Well done Carl !Welcome to the gang.
best 73 de sm6mpa/Hasse

--- In mkars80@..., "Carl" <da6tec@...> wrote:
>
> Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.
>
> K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)
>
> Distance 8909 Km
> RST received: 55
> MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
> Antenna: Doublet 50m long at 15m above the garden
>
> Spotted on DX Cluster. This QSO has made my week!
>
> 72 Carl
> DA6TEC
> www.earthcq.net
>

1637. Re: Cross Atlantic QSO with MKARS80

Yahoo group: mkars80
Date: 2010-03-06 13:20:53 UTC
From: Hasse
Topic: 1630 Message: 1637

Well done Carl !! Welcome to the "Gang73 de sm6mpa/Hasse

--- In mkars80@yahoogroups.co.uk, "Carl" <da6tec@...> wrote:
>
> Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.
>
> K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)
>
> Distance 8909 Km
> RST received: 55
> MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
> Antenna: Doublet 50m long at 15m above the garden
>
> Spotted on DX Cluster. This QSO has made my week!
>
> 72 Carl
> DA6TEC
> www.earthcq.net
>

1638. Re: Facebook group

Yahoo group: mkars80
Date: 2010-03-06 21:26:03 UTC
From: Mattias
Topic: 1635 Message: 1638

--- In mkars80@..., "robpegsuk" <robpegs@...> wrote:
>
> just a quick note,for facebook users, i have just made a group called MKARS80, for Skeds tips etc, to run along side this great group.
> so if your on Facebook search for the MKARS80 group.
> Rob
>

Yep, saw it and have joined it. :)

/M

1639. Diplay Problem

Yahoo group: mkars80
Date: 2010-03-07 00:30:36 UTC
From: Jerome
Topic: 1639 Message: 1639

Greetings, I am having a problem with the readout on my display. Some times when I turn the radio on the display is blank and other times it just has random numbers. Most of the time it is blank. Could the micro-controller be causing this problem ?

1640. A "noicy" question...

Yahoo group: mkars80
Date: 2010-03-08 06:22:20 UTC
From: Mattias
Topic: 1640 Message: 1640

I have thinking about somthing and now i must ask, ...

Than i turn off my RF-GAIN fully anti-clockwise i still got a weak noice in my speaker, is whis normal .. ?

Or should it be all quiet if i pull down the RF-GAIN to zerow?.

/M

1641. Re: [mkars80] A "noicy" question...

Yahoo group: mkars80
Date: 2010-03-08 06:52:25 UTC
From: Steve Drury
Topic: 1640 Message: 1641

You will get a small noise due to the IF stages and the audio amplifier. The high frequency noise can be reduced by putting a low value (1nF - 47nF) capacitor from pin 3 of IC1 to Gnd, please experiment.

Steve G6ALU

----- Original Message -----
From: "Mattias" <sm0yyq@...>
To: <mkars80@...>
Sent: Monday, March 08, 2010 6:22 AM
Subject: [mkars80] A "noicy" question...

>I have thinking about somthing and now i must ask, ...
>
> Than i turn off my RF-GAIN fully anti-clockwise i still got a weak noice
> in my speaker, is whis normal .. ?
>
> Or should it be all quiet if i pull down the RF-GAIN to zerow?.
>
> /M
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1642. Re: A "noicy" question...

Yahoo group: mkars80
Date: 2010-03-08 08:13:10 UTC
From: Mattias
Topic: 1640 Message: 1642

Hi Steve..

Thx for the answer .. i will try it out. :)

/M

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> You will get a small noise due to the IF stages and the audio amplifier. The
> high frequency noise can be reduced by putting a low value (1nF - 47nF)
> capacitor from pin 3 of IC1 to Gnd, please experiment.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Mattias" <sm0yyq@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Monday, March 08, 2010 6:22 AM
> Subject: [mkars80] A "noicy" question...
>
>
> >I have thinking about somthing and now i must ask, ...
> > > Than i turn off my RF-GAIN fully anti-clockwise i still got a weak noice
> > > in my speaker, is whis normal .. ?
> > > Or should it be all quiet if i pull down the RF-GAIN to zerow?.
> > > /M
> > >
> > >
> > > ------------------------------------
> > > Yahoo! Groups Links
> > >
> > >
> > >
>

1643. Re: [mkars80] Diplay Problem

Yahoo group: mkars80
Date: 2010-03-08 18:32:17 UTC
From: Steve Drury
Topic: 1639 Message: 1643

Jerome,

Do you turn the power supply on with the radio connected? If so try turning
the power supply on and then connecting the MKARS80 to it.

I think you have two MKARS80s, do both do it?

Steve G6ALU

----- Original Message -----
From: "Jerome" <w9tko@...>
To: <mkars80@...>
Sent: Sunday, March 07, 2010 12:30 AM
Subject: [mkars80] Diplay Problem

> Greetings, I am having a problem with the readout on my display. Some
> times when I turn the radio on the display is blank and other times it
> just has random numbers. Most of the time it is blank. Could the
> micro-controller be causing this problem ?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1644. Calling all VK users!

Yahoo group: mkars80
Date: 2010-03-25 08:01:16 UTC
From: vk2jdp
Topic: 1644 Message: 1644

As there are a few VK builders out there, I have dedicated my MKARS80 to sitting on 3690 for a while to see who may pop up. It will be on from about 1930AEDT through to somewhere around 2300, every day, depending on what's happening.

Antenna is either a 1/4 wave sloper or a folded dipole, depending upon noise. The sloper has a lower angle but its real noisy. The dipole rarely gets more than 500km but at least you can hear.

This may give us some chance against the usual 80m bunch - many of which won't answer a CQ unless it's S9 ;-)

If 3690's taken, try 3695.

Regards,
Jon

1645. Low level Audio feedback on tx

Yahoo group: mkars80
Date: 2010-03-26 14:06:22 UTC
From: Phil Archer
Topic: 1645 Message: 1645

Hi

I have now got my mkars80 to transmit and receive but when I transmit I'm getting low level mic audio in the speaker.

When I first built the board I had a blob of solder shorting L6 to ground so there was no rf output at all but I still had this feedback (tx ok now offending blob removed)

If i probe pin 3 of the af chip i get lots off noise which stops as soon as the ptt is pressed.

so:
The af mute transistor works
Its not high level RF break through.

Any suggestions please

Phil G6AKK

1646. Re: [mkars80] Low level Audio feedback on tx

Yahoo group: mkars80
Date: 2010-03-26 14:09:16 UTC
From: Steve Drury
Topic: 1645 Message: 1646

Hi Phil,

You will get a little microphone audio through the speaker, let me know if it's at an objectionable level.

Steve G6ALU

----- Original Message -----
From: "Phil Archer" <PhilG6akk@...>
To: <mkars80@...>
Sent: Friday, March 26, 2010 2:06 PM
Subject: [mkars80] Low level Audio feedback on tx

> Hi
>
> I have now got my mkars80 to transmit and receive but when I transmit I'm
> getting low level mic audio in the speaker.
>
> When I first built the board I had a blob of solder shorting L6 to ground
> so there was no rf output at all but I still had this feedback (tx ok now
> offending blob removed)
>
> If i probe pin 3 of the af chip i get lots off noise which stops as soon
> as the ptt is pressed.
>
> so:
> The af mute transistor works
> Its not high level RF break through.
>
> Any suggestions please
>
> Phil G6AKK
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1647. Re: [mkars80] Low level Audio feedback on tx

Yahoo group: mkars80
Date: 2010-03-26 18:57:05 UTC
From: Peter Fraser
Topic: 1645 Message: 1647

Hi Steve & Phil

My MKARS80 had objectionable level of noise. I am using a speaker/microphone and it feeds back and squeals.

I fitted a small DPDT relay directly from the microphone PTT that opens the speaker line and applies the PTT for the rest of the radio.

There is a photo on my blog at http://vk3zpf.blogspot.com/2010/03/mkars80-update-7.html although I believe there are other methods to achieve the same effect.

My BITX20 V3 had a similar problem that got the same cure.

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Saturday, March 27, 2010 1:09 AM
Subject: Re: [mkars80] Low level Audio feedback on tx

Hi Phil,

You will get a little microphone audio through the speaker, let me know if
it's at an objectionable level.

Steve G6ALU

----- Original Message -----
From: "Phil Archer" <PhilG6akk@...>
To: <mkars80@...>
Sent: Friday, March 26, 2010 2:06 PM
Subject: [mkars80] Low level Audio feedback on tx

> Hi
>
> I have now got my mkars80 to transmit and receive but when I transmit I'm
> getting low level mic audio in the speaker.
>
> When I first built the board I had a blob of solder shorting L6 to ground
> so there was no rf output at all but I still had this feedback (tx ok now
> offending blob removed)
>
> If i probe pin 3 of the af chip i get lots off noise which stops as soon
> as the ptt is pressed.
>

> so:
> The af mute transistor works
> Its not high level RF break through.
>
> Any suggestions please
>
> Phil G6AKK
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

1648. Re: Low level Audio feedback on tx

Yahoo group: mkars80
Date: 2010-03-26 20:44:35 UTC
From: Phil Archer
Topic: 1645 Message: 1648

Thanks Gentlemen

I shall get it all boxed up then retest it. I listened on 80 tonight and heard stations as well as on the HF3 shortwave reciever.

Phil G6AKK

--- In mkars80@..., "Peter Fraser" <pfraser@...> wrote:
>
>
> Hi Steve & Phil
>
> My MKARS80 had objectionable level of noise. I am using a speaker/microphone and it feeds back and squeals.
>
> I fitted a small DPDT relay directly from the microphone PTT that opens the speaker line and applies the PTT for the rest of the radio.
>
> There is a photo on my blog at http://vk3zpf.blogspot.com/2010/03/mkars80-update-7.html although I believe there are other methods to achieve the same effect.
>
> My BITX20 V3 had a similar problem that got the same cure.
>
> 73
> Peter VK3ZPF
> http://vk3zpf.blogspot.com/
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Saturday, March 27, 2010 1:09 AM
> Subject: Re: [mkars80] Low level Audio feedback on tx
>
>
>
>
> Hi Phil,
>
> You will get a little microphone audio through the speaker, let me know if
> it's at an objectionable level.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Phil Archer" <PhilG6akk@...>
> To: <mkars80@...>
> Sent: Friday, March 26, 2010 2:06 PM

> Subject: [mkars80] Low level Audio feedback on tx
>
> > Hi
> >
> > I have now got my mkars80 to transmit and receive but when I transmit I'm
> > getting low level mic audio in the speaker.
> >
> > When I first built the board I had a blob of solder shorting L6 to ground
> > so there was no rf output at all but I still had this feedback (tx ok now
> > offending blob removed)
> >
> > If i probe pin 3 of the af chip i get lots off noise which stops as soon
> > as the ptt is pressed.
> >
> > so:
> > The af mute transistor works
> > Its not high level RF break through.
> >
> > Any suggestions please
> >
> > Phil G6AKK
> >
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> > Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]
>

1649. Re: Low level Audio feedback on tx

Yahoo group: mkars80
Date: 2010-03-28 00:18:53 UTC
From: vk2jdp
Topic: 1645 Message: 1649

Phil,

I'm with Peter on this one - use a separate contact to silence the speaker if you can. The transistor mute is fairly effective, but we have a gain of 200 after it!

<< I also tried the speaker/mic combo and it failed miserably!! >>

I have an inbuilt speaker, which caused feedback whenever I held the mic too close. The problem was actually that the mic was too sensitive. I noticed this fairly early on and had taken to almost whispering. Otherwise, I could barely talk without the TX LED going out!

I swapped it for a $2 el-cheapo mic insert, which has less sensitivity.

This worked (sorta) except I was still getting whistles and strange carriers on my signal when I operated portable (read: with a less-than-perfect earth). Turns out that the mic element was picking up RF, and adding a 470pF cap across it made it worse :-(

So now, I've wired the unused speaker element as a mic.

Voila! Why I didn't think of this earlier, I don't know =]

Its a bit un-sensitive, but as a result, the audio quality is much punchier. You don't have to yell, but it helps to hold the mic against your cheek.

PS Just got 2 evening's worth of QSOs out of a 9ah battery. This thing never ceases to amaze me!

Regards,
Jon

--- In mkars80@..., "Phil Archer" <PhilG6akk@...> wrote:
>
>
> Thanks Gentlemen
>
> I shall get it all boxed up then retest it. I listened on 80 tonight and heard stations as well as on the HF3 shortwave reciever.
>
> Phil G6AKK
>
>
> --- In mkars80@yahoogroups.co.uk, "Peter Fraser" <pfraser@> wrote:
> >
> >
> > Hi Steve & Phil
> >
> > My MKARS80 had objectionable level of noise. I am using a speaker/microphone and it feeds back and squeals.

> >
> > I fitted a small DPDT relay directly from the microphone PTT that opens the speaker line and applies the PTT for the rest of the radio.
> >
> > There is a photo on my blog at http://vk3zpf.blogspot.com/2010/03/mkars80-update-7.html although I believe there are other methods to achieve the same effect.
> >
> > My BITX20 V3 had a similar problem that got the same cure.
> >
> > 73
> > Peter VK3ZPF
> > http://vk3zpf.blogspot.com/
> >
> > ----- Original Message -----
> > From: Steve Drury
> > To: mkars80@...
> > Sent: Saturday, March 27, 2010 1:09 AM
> > Subject: Re: [mkars80] Low level Audio feedback on tx
> >
> >
> >
> > Hi Phil,
> >
> > You will get a little microphone audio through the speaker, let me know if
> > it's at an objectionable level.
> >
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Phil Archer" <PhilG6akk@>
> > To: <mkars80@...>
> > Sent: Friday, March 26, 2010 2:06 PM
> > Subject: [mkars80] Low level Audio feedback on tx
> >
> > > Hi
> > >
> > > I have now got my mkars80 to transmit and receive but when I transmit I'm
> > > getting low level mic audio in the speaker.
> > >
> > > When I first built the board I had a blob of solder shorting L6 to ground
> > > so there was no rf output at all but I still had this feedback (tx ok now
> > > offending blob removed)
> > >
> > > If i probe pin 3 of the af chip i get lots off noise which stops as soon
> > > as the ptt is pressed.
> > >
> > > so:
> > > The af mute transistor works
> > > Its not high level RF break through.

> > >
> > > Any suggestions please
> > >
> > > Phil G6AKK
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> >
> > [Non-text portions of this message have been removed]
> >
>

1651. Re: [mkars80]

Yahoo group: mkars80
Date: 2010-04-02 09:19:08 UTC
From: Steve Drury
Topic: 1651 Message: 1651

DO NOT OPEN THE ATTACHMENT IN THE LAST MESSAGE

The last message contains a virus so don't open the attachment what ever you do!

I didn't think I had file sharing enabled so I'm not sure what has happened here, I will attempt to turn off the ability to send files and will also ban the user.

If you don't already have a GOOD virus checker I would advise going to http://free.avg.com/gb-en/homepage and downloading AVG, it won't cost you anything and could save loss of data.

Steve G6ALU

----- Original Message -----
From: "Larry C" <ws3z711@...>
To: <milav@...>; <mkars80@...>;
<polarwind15@...>; <racer@...>; <rawjaw@...>;
<rcraft435@...>; <rlarrick@...>;
<samuel.st-aubin@...>; <neal.greenberg@...>;
<schmartboardsv@yahoogroups.com>
Sent: Friday, April 02, 2010 10:07 AM
Subject: [mkars80]

> http://rapidshare.com/files/370884121/new14.0.exe
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1652. READ FIRST - Propogation of viruses

Yahoo group: mkars80
Date: 2010-04-02 09:34:01 UTC
From: Steve Drury
Topic: 1652 Message: 1652

Propagation of viruses via the MKARS80 group

I've checked the group "settings" and according to Yahoo attachments should be "stripped" off all messages, I guess the virus got through because it some how fooled the Yahoo software into thinking it was part of the message body but Outlook worked out it was an attachment and displayed it as such.

To avoid the reoccurrence I have changed the settings so ALL emails will now be moderated by me, this will cause delay in you reading them but its obviously necessary to protect against the propagation of viruses.

Its a pity some people allow viruses to affect their computer - most can be prevented by using free software http://free.avg.com/gb-en/homepage .

Steve G6ALU

[Non-text portions of this message have been removed]

1653. Re: [mkars80]

Yahoo group: mkars80
Date: 2010-04-02 09:35:40 UTC
From: Tony Olewicz
Topic: 1651 Message: 1653

Thanks Steve,
It looked dodgy so I didn't.
A timely reminder - never open links that you are not expecting.

--- On Fri, 2/4/10, Steve Drury <g6alu@tiscali.co.uk> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80]
To: mkars80@...
Date: Friday, 2 April, 2010, 10:19

DO NOT OPEN THE ATTACHMENT IN THE LAST MESSAGE

The last message contains a virus so don't open the attachment what ever you

do!

I didn't think I had file sharing enabled so I'm not sure what has happened

here, I will attempt to turn off the ability to send files and will also ban

the user.

If you don't already have a GOOD virus checker I would advise going to

http://free. avg.com/gb- en/homepage and downloading AVG, it won't cost you

anything and could save loss of data.

Steve G6ALU

----- Original Message -----

From: "Larry C" <ws3z711@gmail. com>

To: <milav@windstream. net>; <mkars80@yahoogroups .co.uk>;

<polarwind15@ gmail.com>; <racer@lhtot. com>; <rawjaw@hughes. net>;

<rcraft435@comcast. net>; <rlarrick@stellarins t.com>;

<samuel.st-aubin@ openslab. com>; <neal.greenberg@ schmartboard. com>;

<schmartboardsv@ yahoogroups. com>

Sent: Friday, April 02, 2010 10:07 AM

Subject: [mkars80]

> http://rapidshare. com/files/ 370884121/ new14.0.exe

>

>

> ------------ --------- --------- ------

>

> Yahoo! Groups Links

>

>

>

[Non-text portions of this message have been removed]

1654. Re: [mkars80]

Yahoo group: mkars80
Date: 2010-04-02 09:50:54 UTC
From: Steve Drury
Topic: 1654 Message: 1654

I thought I had protected ourselves by turning off the ability to send attachments but obviously not!

Oh well, it will wake the group up, its been abit quite recently! Just hope no one has been hit by the virus as it very nasty, I've had a look at the virus checker history and its Win32 Heur... found the following on the net:

"What is Win32 Heur Virus and what it can do to you

Win32 Heur Virus is a Trojan designed to get your money by any means. Some of them will show you fake security warnings and then offer you to buy their rogue antivirus. Rogue Antivirus is not designed to help your computer, instead it will harm your computer further, and it is very aggressive."

Steve

----- Original Message -----
From: "Tony Olewicz" <hamfm1000@...>
To: <mkars80@...>
Sent: Friday, April 02, 2010 10:35 AM
Subject: Re: [mkars80]

Thanks Steve,
It looked dodgy so I didn't.
A timely reminder - never open links that you are not expecting.

--- On Fri, 2/4/10, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80]
To: mkars80@...
Date: Friday, 2 April, 2010, 10:19

DO NOT OPEN THE ATTACHMENT IN THE LAST MESSAGE

The last message contains a virus so don't open the attachment what ever you

do!

I didn't think I had file sharing enabled so I'm not sure what has happened

here, I will attempt to turn off the ability to send files and will also ban

the user.

If you don't already have a GOOD virus checker I would advise going to

http://free. avg.com/gb- en/homepage and downloading AVG, it won't cost you

anything and could save loss of data.

Steve G6ALU

----- Original Message -----

From: "Larry C" <ws3z711@gmail. com>

To: <milav@windstream. net>; <mkars80@yahoogroups .co.uk>;

<polarwind15@ gmail.com>; <racer@lhtot. com>; <rawjaw@hughes. net>;

<rcraft435@comcast. net>; <rlarrick@stellarins t.com>;

<samuel.st-aubin@ openslab. com>; <neal.greenberg@ schmartboard. com>;

<schmartboardsv@ yahoogroups. com>

Sent: Friday, April 02, 2010 10:07 AM

Subject: [mkars80]

> http://rapidshare. com/files/ 370884121/ new14.0.exe

>

>

> ------------ --------- --------- ------

>

> Yahoo! Groups Links

>

>

>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1655. Re: READ FIRST - Propogation of viruses

Yahoo group: mkars80
Date: 2010-04-02 09:49:34 UTC
From: mark
Topic: 1652 Message: 1655

Hi Steve thanks for the very quick response you have saved a lot of people hassle and time all the best from Mark 2w0jmk

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Propagation of viruses via the MKARS80 group
>
> I've checked the group "settings" and according to Yahoo attachments should be "stripped" off all messages, I guess the virus got through because it some how fooled the Yahoo software into thinking it was part of the message body but Outlook worked out it was an attachment and displayed it as such.
>
> To avoid the reoccurrence I have changed the settings so ALL emails will now be moderated by me, this will cause delay in you reading them but its obviously necessary to protect against the propagation of viruses.
>
> Its a pity some people allow viruses to affect their computer - most can be prevented by using free software http://free.avg.com/gb-en/homepage .
>
> Steve G6ALU
>
>
> [Non-text portions of this message have been removed]
>

1656. Re: [mkars80]

Yahoo group: mkars80
Date: 2010-04-02 10:05:04 UTC
From: Steve Bell
Topic: 1651 Message: 1656

As soon as I saw the attachment I suspected it was dodgy, and an exe file with no covering text even more so. No problem here as my emails only come down to a Mac running OS X, and the PC I just use for amateur radio software runs AVG as it connects to the web. I haven't seen anything like this for a long while.

Steve 2E0SGB

On 2 Apr 2010, at 10:19, Steve Drury wrote:

>
> DO NOT OPEN THE ATTACHMENT IN THE LAST MESSAGE
>
> The last message contains a virus so don't open the attachment what
> ever you
> do!
>
> I didn't think I had file sharing enabled so I'm not sure what has
> happened
> here, I will attempt to turn off the ability to send files and will
> also ban
> the user.
>
> If you don't already have a GOOD virus checker I would advise going to
> http://free.avg.com/gb-en/homepage and downloading AVG, it won't
> cost you
> anything and could save loss of data.
>
> Steve G6ALU
>
>
> >
> > Yahoo! Groups Links
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>

1657. RE: [mkars80] READ FIRST - Propogation of viruses

Yahoo group: mkars80
Date: 2010-04-02 10:25:11 UTC
From: David White
Topic: 1652 Message: 1657

thanks for the warning steve. de G3ZPA

NNNN

To: mkars80@yahoogroups.co.uk
From: g6alu@...
Date: Fri, 2 Apr 2010 10:34:01 +0100
Subject: [mkars80] READ FIRST - Propogation of viruses

Propagation of viruses via the MKARS80 group

I've checked the group "settings" and according to Yahoo attachments should be "stripped" off all messages, I guess the virus got through because it some how fooled the Yahoo software into thinking it was part of the message body but Outlook worked out it was an attachment and displayed it as such.

To avoid the reoccurrence I have changed the settings so ALL emails will now be moderated by me, this will cause delay in you reading them but its obviously necessary to protect against the propagation of viruses.

Its a pity some people allow viruses to affect their computer - most can be prevented by using free software http://free.avg.com/gb-en/homepage .

Steve G6ALU

[Non-text portions of this message have been removed]

_____
http://clk.atdmt.com/UKM/go/195013117/direct/01/
We want to hear all your funny, exciting and crazy Hotmail stories. Tell us now

[Non-text portions of this message have been removed]

1658. Re: [mkars80]

Yahoo group: mkars80
Date: 2010-04-02 11:17:33 UTC
From: Steve Bell
Topic: 1651 Message: 1658

I've just had a post from the softrock-40 yahoo group, they've had
something similar although I didn't see it. I suspect this has been
sent to multiple yahoo groups.

Steve 2E0SGB

On 2 Apr 2010, at 10:19, Steve Drury wrote:

>
> DO NOT OPEN THE ATTACHMENT IN THE LAST MESSAGE
>
> The last message contains a virus so don't open the attachment what
> ever you
> do!
>
> I didn't think I had file sharing enabled so I'm not sure what has
> happened
> here, I will attempt to turn off the ability to send files and will
> also ban
> the user.
>
> If you don't already have a GOOD virus checker I would advise going to
> http://free.avg.com/gb-en/homepage and downloading AVG, it won't
> cost you
> anything and could save loss of data.
>
> Steve G6ALU
>

> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

1659. Re: [mkars80] the virus posting

Yahoo group: mkars80
Date: 2010-04-02 12:07:21 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 1651 Message: 1659

Hi Steve (2E0SGB)

Yes it was sent to multiple groups and email addresses as the posted message arrived here showing them all in the CC line.

Also Steve (G6ALU) I see the post with the link is still on the board. As you're the owner moderator may I suggest deleting the message so no one accidentally clicks on it.

(Edit from G6ALU
Thanks, I thought I had deleted... obviously pressed the wrong button!
Steve)

Cheers all

Slim G4IPZ

--- In mkars80@..., Steve Bell <listsmail@...> wrote:
>
> I've just had a post from the softrock-40 yahoo group, they've had
> something similar although I didn't see it. I suspect this has been
> sent to multiple yahoo groups.
>
> Steve 2E0SGB
>
> On 2 Apr 2010, at 10:19, Steve Drury wrote:
>

1660. Re: [mkars80]

Yahoo group: mkars80
Date: 2010-04-05 13:42:13 UTC
From: g4gcl
Topic: 1654 Message: 1660

Hi Steve & group.

I've just returned home after a short Easter break (in Milton Keynes actually) & saw the messages about the virus.

First of all thank you for pointing it out Steve but, unless I am mistaken, & that is very possible, it was just a link and not an attachment which means it would be difficult if not impossible to filter out.

I think we just need to be on our guard as usual.

Thanks again.

73

John G4GCL

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I thought I had protected ourselves by turning off the ability to send
> attachments but obviously not!
>
> Oh well, it will wake the group up, its been abit quite recently! Just
hope
> no one has been hit by the virus as it very nasty, I've had a look at
the
> virus checker history and its Win32 Heur... found the following on the
net:
>
> "What is Win32 Heur Virus and what it can do to you
>
> Win32 Heur Virus is a Trojan designed to get your money by any means.
Some
> of them will show you fake security warnings and then offer you to buy
their
> rogue antivirus. Rogue Antivirus is not designed to help your
computer,
> instead it will harm your computer further, and it is very
aggressive."
>
> Steve
>

1661. Swedish manual?

Yahoo group: mkars80
Date: 2010-04-14 19:07:40 UTC
From: Steve Drury
Topic: 1661 Message: 1661

I have had a request for a translation of the MKARS80 manual into Swedish, unfortunately I only speak and read English!

Many MKARS80s have been sold to Sweden, I wonder if anyone has translated the manual?

Thanks,
Steve G6ALU

[Non-text portions of this message have been removed]

1662. Re: [mkars80] Swedish manual?

Yahoo group: mkars80
Date: 2010-04-14 19:42:37 UTC
From: Thomas S. Knutsen
Topic: 1661 Message: 1662

I dont know about an swedish manual, but there is an Norwegian, and most people from sweden are able to understand that, there is not that much difference.

73 de Thomas LA3PNA

2010/4/14 Steve Drury <g6alu@...>

>
>
> I have had a request for a translation of the MKARS80 manual into Swedish,
> unfortunately I only speak and read English!
>
> Many MKARS80s have been sold to Sweden, I wonder if anyone has translated
> the manual?
>
> Thanks,
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>
>
>

--

Please avoid sending me Word or PowerPoint attachments.
See <http://www.gnu.org/philosophy/no-word-attachments.html>

[Non-text portions of this message have been removed]

1663. varicap tuning

Yahoo group: mkars80
Date: 2010-04-14 21:19:48 UTC
From: Hasse
Topic: 1663 Message: 1663

Hi all !
According the file i red from G8EEY about varicaptuning i have a question if the too MVAM109 can be replaced by a singel BB212.I`m not so familier with varicaptuning and therefor this asking.If you look at the BB212 datasheet the values seems to fit.BB212 is a double varicap with 3 legs.2 anodes and one colektor.Any ideas ?
best 73 de SM6MPA/Hasse

1664. Re: Cross Atlantic QSO with MKARS80

Yahoo group: mkars80
Date: 2010-04-14 21:25:15 UTC
From: Hasse
Topic: 1630 Message: 1664

Well done Carl !Welcome to the "club" Hi Hi de sm6mpa/hasse

--- In mkars80@..., "Carl" <da6tec@...> wrote:
>
> Delighted to be able to report to the group an excellent confirmed cross Atlantic QSO last night.
>
> K6AAX/VY2 (Prince Edward Island, Canada) < > DA6TEC (Wegberg)
>
> Distance 8909 Km
> RST received: 55
> MKARS80 at 3.5W on voice peaks (had voltage turned down to 13.5v)
> Antenna: Doublet 50m long at 15m above the garden
>
> Spotted on DX Cluster. This QSO has made my week!
>
> 72 Carl
> DA6TEC
> www.earthcq.net
>

1665. Re: Swedish manual?

Yahoo group: mkars80
Date: 2010-04-14 21:40:14 UTC
From: Hasse
Topic: 1661 Message: 1665

Hej Thomas !
Javisst, det finns ju en Norsk manual som jag har rekomenderat
flera hams i SM om.Den fanns inte när jag byggde min MKARS80, men
den Engelska manualen var ju helt superb.Det är säkert någon SM
station som har missat den norska manualen i Files.Sorry all others
who not speak Norwegian or Swedish -i just told Thomas about Norwegian/Swedish manual.
best 73 de sm6mpa/hasse

--- In mkars80@..., "Thomas S. Knutsen" <la3pna@...> wrote:
>
> I dont know about an swedish manual, but there is an Norwegian, and most
> people from sweden are able to understand that, there is not that much
> difference.
>
> 73 de Thomas LA3PNA
>
> 2010/4/14 Steve Drury <g6alu@...>
>
> >
> >
> > I have had a request for a translation of the MKARS80 manual into Swedish,
> > unfortunately I only speak and read English!
> >
> > Many MKARS80s have been sold to Sweden, I wonder if anyone has translated
> > the manual?
> >
> > Thanks,
> > Steve G6ALU
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
>
>
>
> --
>
> Please avoid sending me Word or PowerPoint attachments.
> See <http://www.gnu.org/philosophy/no-word-attachments.html>
>
>
> [Non-text portions of this message have been removed]
>

1666. Re: varicap tuning

Yahoo group: mkars80
Date: 2010-04-15 10:28:07 UTC
From: panzerbeeb
Topic: 1663 Message: 1666

Hi Hasse,
I have looked at the datasheet for the BB212, and I think it looks like a suitable replacement for the MVAM109. You may need to adjust the value of the coupling capacitor to get the tuning range correct.
73 Mike G8EEY

--- In mkars80@..., "Hasse" <sm6mpa@...> wrote:
>
> Hi all !
> According the file i red from G8EEY about varicaptuning i have a
> question if the too MVAM109 can be replaced by a singel BB212.I`m
> not so familier with varicaptuning and therefor this asking.If you
> look at the BB212 datasheet the values seems to fit.BB212 is a double
> varicap with 3 legs.2 anodes and one colektor.Any ideas ?
> best 73 de SM6MPA/Hasse
>

1667. Swedish manual

Yahoo group: mkars80
Date: 2010-04-18 21:19:10 UTC
From: Steve Drury
Topic: 1667 Message: 1667

Olof SM2DCU has kindly translated the manual into Swedish - it can be downloaded from here:

http://www.fura.se/nyheter/teknikinfo/mkars80-nu-finns-en-svensk-byggbeskrivning.html

Steve G6ALU

[Non-text portions of this message have been removed]

1668. HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-21 16:50:57 UTC
From: mark
Topic: 1668 Message: 1668

Hi all i need two 100nf npo capacitors to stabilize my two modded mkars'80s. I don't now if G8EEY has the same problem but my two radios tend to drift with temperature.
thanks from Mark 2w0jmk

1669. Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-21 18:36:25 UTC
From: Steve Drury
Topic: 1668 Message: 1669

Mark,

Did you not get two 100nF NP0 capacitors in the kit? In any case send me an SAE and I will post you some.

Radio-Kits
25 Crosslands,
Stantonbury,
Milton Keynes,
Bucks.
MK14 6AY

Steve G6ALU

----- Original Message -----
From: "mark" <mw3hqt@...>
To: <mkars80@...>
Sent: Wednesday, April 21, 2010 5:50 PM
Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

> Hi all i need two 100nf npo capacitors to stabilize my two modded
> mkars'80s. I don't now if G8EEY has the same problem but my two radios
> tend to drift with temperature.
> thanks from Mark 2w0jmk
>
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>
> Yahoo! Groups Links
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1670. Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-21 19:11:26 UTC
From: John YAHOO
Topic: 1668 Message: 1670

100nF NPO ??

> Did you not get two 100nF NP0 capacitors in the kit? In any case send me an
> SAE and I will post you some.
>
> Radio-Kits
> 25 Crosslands,
> Stantonbury,
> Milton Keynes,
> Bucks.
> MK14 6AY
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "mark" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Wednesday, April 21, 2010 5:50 PM
> Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
>
>
>> Hi all i need two 100nf npo capacitors to stabilize my two modded
>> mkars'80s. I don't now if G8EEY has the same problem but my two radios
>> tend to drift with temperature.
>> thanks from Mark 2w0jmk

1671. Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-21 19:59:20 UTC
From: Steve Drury
Topic: 1668 Message: 1671

Took a while for the penny to drop! There are two 1nF (IE 1000pF) NP0
capacitors in the kit, I don't have any 100nF NP0 types here, nor could I
afford them!

Steve G6ALU

----- Original Message -----
From: "John YAHOO" <v321uk@...>
To: <mkars80@...>
Sent: Wednesday, April 21, 2010 8:11 PM
Subject: Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

> 100nF NPO ??
>
>
>> Did you not get two 100nF NP0 capacitors in the kit? In any case send me
>> an
>> SAE and I will post you some.
>>
>> Radio-Kits
>> 25 Crosslands,
>> Stantonbury,
>> Milton Keynes,
>> Bucks.
>> MK14 6AY
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "mark" <mw3hqt@...>
>> To: <mkars80@...>
>> Sent: Wednesday, April 21, 2010 5:50 PM
>> Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
>>
>>
>>> Hi all i need two 100nf npo capacitors to stabilize my two modded
>>> mkars'80s. I don't now if G8EEY has the same problem but my two radios
>>> tend to drift with temperature.
>>> thanks from Mark 2w0jmk
>
>
>
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> ------------------------------------
>

> Yahoo! Groups Links
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>

1672. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-21 20:28:21 UTC
From: mark
Topic: 1668 Message: 1672

Hi Steve thanks and don't worry its all down to age hi hi I will keep an eye out for some and if i find them i will let you now all the best

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Took a while for the penny to drop! There are two 1nF (IE 1000pF) NP0
> capacitors in the kit, I don't have any 100nF NP0 types here, nor could I
> afford them!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John YAHOO" <v321uk@...>
> To: <mkars80@...>
> Sent: Wednesday, April 21, 2010 8:11 PM
> Subject: Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
>
>
> > 100nF NPO ??
> >
> >
> >> Did you not get two 100nF NP0 capacitors in the kit? In any case send me
> >> an
> >> SAE and I will post you some.
> >>
> >> Radio-Kits
> >> 25 Crosslands,
> >> Stantonbury,
> >> Milton Keynes,
> >> Bucks.
> >> MK14 6AY
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "mark" <mw3hqt@...>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Wednesday, April 21, 2010 5:50 PM
> >> Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
> >>
> >>
> >>> Hi all i need two 100nf npo capacitors to stabilize my two modded
> >>> mkars'80s. I don't now if G8EEY has the same problem but my two radios
> >>> tend to drift with temperature.
> >>> thanks from Mark 2w0jmk

> >
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> >
> > Yahoo! Groups Links
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>

1673. Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-22 07:01:41 UTC
From: John YAHOO
Topic: 1668 Message: 1673

Steve,

Just looked at the Bill of material at http://www.radio-kits.co.uk/mkars80page.html

It shows two NPO and one NP0

No mention of the two 1nF NP0 though.

John G3UGY

> Took a while for the penny to drop! There are two 1nF (IE 1000pF) NP0
> capacitors in the kit, I don't have any 100nF NP0 types here, nor could I
> afford them!
>
> Steve G6ALU

[Non-text portions of this message have been removed]

1675. Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-22 17:49:15 UTC
From: Steve Drury
Topic: 1668 Message: 1675

Thanks for pointing that out John, I've deleted the BOM (bill of material)
as it is out of date - it should have been updated when the manual was but I
forgot it was there!

The BOM is contained in the manual.

Steve G6ALU

----- Original Message -----
From: "John YAHOO" <v321uk@...>
To: <mkars80@...>
Sent: Thursday, April 22, 2010 8:01 AM
Subject: Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

> Steve,
>
> Just looked at the Bill of material at
> http://www.radio-kits.co.uk/mkars80page.html
>
> It shows two NPO and one NP0
>
> No mention of the two 1nF NP0 though.
>
> John G3UGY
>
>
>
>> Took a while for the penny to drop! There are two 1nF (IE 1000pF) NP0
>> capacitors in the kit, I don't have any 100nF NP0 types here, nor could I
>> afford them!
>>
>> Steve G6ALU
>
>
> [Non-text portions of this message have been removed]
>
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>
> Yahoo! Groups Links
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1676. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-22 18:28:14 UTC
From: mark
Topic: 1668 Message: 1676

steve just for your info the two caps i need are for the varactor tuning mod i am using a 100nf cap now but they are not npo ones
mark 2w0jmk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Took a while for the penny to drop! There are two 1nF (IE 1000pF) NP0
> capacitors in the kit, I don't have any 100nF NP0 types here, nor could I
> afford them!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "John YAHOO" <v321uk@...>
> To: <mkars80@...>
> Sent: Wednesday, April 21, 2010 8:11 PM
> Subject: Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
>
>
> > 100nF NPO ??
> >
> >
> >> Did you not get two 100nF NP0 capacitors in the kit? In any case send me
> >> an
> >> SAE and I will post you some.
> >>
> >> Radio-Kits
> >> 25 Crosslands,
> >> Stantonbury,
> >> Milton Keynes,
> >> Bucks.
> >> MK14 6AY
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "mark" <mw3hqt@...>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Wednesday, April 21, 2010 5:50 PM
> >> Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
> >>
> >>
> >>> Hi all i need two 100nf npo capacitors to stabilize my two modded
> >>> mkars'80s. I don't now if G8EEY has the same problem but my two radios
> >>> tend to drift with temperature.

> >>> thanks from Mark 2w0jmk
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> > Yahoo! Groups Links
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1677. Re: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-22 19:16:44 UTC
From: Steve Drury
Topic: 1668 Message: 1677

Hi Mark,

I'm not the author of that mod but I suspect the leakage is the most
important thing so perhaps a plastic type (mylar / polyester) type would be
suitable - perhaps VE3XJ would like to comment.

Steve

----- Original Message -----
From: "mark" <mw3hqt@...>
To: <mkars80@...>
Sent: Thursday, April 22, 2010 7:28 PM
Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP

> steve just for your info the two caps i need are for the varactor tuning
> mod i am using a 100nf cap now but they are not npo ones
> mark 2w0jmk
>
>
>
>
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Took a while for the penny to drop! There are two 1nF (IE 1000pF) NP0
>> capacitors in the kit, I don't have any 100nF NP0 types here, nor could I
>> afford them!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "John YAHOO" <v321uk@...>
>> To: <mkars80@...>
>> Sent: Wednesday, April 21, 2010 8:11 PM
>> Subject: Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
>>
>>
>> > 100nF NPO ??
>> >
>> >
>> >> Did you not get two 100nF NP0 capacitors in the kit? In any case send
>> >> me
>> >> an
>> >> SAE and I will post you some.
>> >>
>> >> Radio-Kits

>> >> 25 Crosslands,
>> >> Stantonbury,
>> >> Milton Keynes,
>> >> Bucks.
>> >> MK14 6AY
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: "mark" <mw3hqt@...>
>> >> To: <mkars80@...>
>> >> Sent: Wednesday, April 21, 2010 5:50 PM
>> >> Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
>> >>
>> >>
>> >>> Hi all i need two 100nf npo capacitors to stabilize my two modded
>> >>> mkars'80s. I don't now if G8EEY has the same problem but my two
>> >>> radios
>> >>> tend to drift with temperature.
>> >>> thanks from Mark 2w0jmk
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>> > Yahoo! Groups Links
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1678. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-22 20:30:08 UTC
From: panzerbeeb
Topic: 1668 Message: 1678

Hi Mark Steve and all,
The VFO mod I used was proposed by G8DIU. Here are copies of his 2 posts some time ago regarding his design:
QUOTE
Hi All, A great little kit, so thanks Steve.
Mod 1. Changing C59 and 60 from polyester to POLYSTYRENE
dramatically reduces the VFO drift.
Mod 2. By removing the Tuning capacitor and replacing it with a 10
turn 10K pot and 2 MVAM109 diodes in series makes tuning really
easy.Approx 100pf is needed to couple to the original Tuning
Capacitor point.A 1 meg resistor provides an earth connection, from
the junction of the top diode and the 100pF coupling capacitor.The
tuning voltage is fed via a 470K resistor from the 0.1uF capacitor
decoupled slider of a 10 turn pot. where the diodes are connected
togeter.
One end of the pot goes to the +8V stab . rail and the other end of
the pot is earthed. Get it the right way round means clockwise
rotation of the pot increases the 3.6 MHz frequency to 3.8 Mhz
Series Varicap diodes are connected together at their positive
connections, this is the 470K control voltage point and one neg. end
goes to earth, the old tuning cap earth connection, the other neg.
diode end going to the 1 Meg to earth Resistor and 100 pf point.
Good luck all
73
Brian G8DIU
QUOTE

and

QUOTE
Hi
Some words for guidance re Messagage 353.
Polystyrene Capacitors have a colour coded end, being tubular, that
denotes the outer foil. This should always be connected to the lowest
RF potential, e.g OV or earth if possible or as near.
The top coupling capacitor, from the Varicap. comprises a Ceramic NPO
22pF in parallel with a polystyrene 82 pF capacitor. Low value NPO
capacitors usually have a black panted top.
Series connected MVAM109 diodes are connected this way to prevent
forward conduction, due to high circulating RF voltages, that can
cause spurious responses and thus strange effects. MVAM109s are used
in Medium Wave designs so series connection halves their effective
Capacitance swing which is fine in the narrow band MKARS80 application.
I hope this of use/interest.
73

Brian G8DIU
QUOTE

73s Mike G8EEY.

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Hi Mark,
>
> I'm not the author of that mod but I suspect the leakage is the most
> important thing so perhaps a plastic type (mylar / polyester) type would be
> suitable - perhaps VE3XJ would like to comment.
>
> Steve
>
> ----- Original Message -----
> From: "mark" <mw3hqt@...>
> To: <mkars80@...>
> Sent: Thursday, April 22, 2010 7:28 PM
> Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP
>
>
> > steve just for your info the two caps i need are for the varactor tuning
> > mod i am using a 100nf cap now but they are not npo ones
> > mark 2w0jmk
> >
> >
> >
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >>
> >> Took a while for the penny to drop! There are two 1nF (IE 1000pF) NP0
> >> capacitors in the kit, I don't have any 100nF NP0 types here, nor could I
> >> afford them!
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "John YAHOO" <v321uk@>
> >> To: <mkars80@...>
> >> Sent: Wednesday, April 21, 2010 8:11 PM
> >> Subject: Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
> >>
> >>
> >> > 100nF NPO ??
> >> >
> >> >
> >> >> Did you not get two 100nF NP0 capacitors in the kit? In any case send
> >> >> me
> >> >> an

> >> >> SAE and I will post you some.
> >> >>
> >> >> Radio-Kits
> >> >> 25 Crosslands,
> >> >> Stantonbury,
> >> >> Milton Keynes,
> >> >> Bucks.
> >> >> MK14 6AY
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "mark" <mw3hqt@>
> >> >> To: <mkars80@yahoogroups.co.uk>
> >> >> Sent: Wednesday, April 21, 2010 5:50 PM
> >> >> Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
> >> >>
> >> >>
> >> >>> Hi all i need two 100nf npo capacitors to stabilize my two modded
> >> >>> mkars'80s. I don't now if G8EEY has the same problem but my two
> >> >>> radios
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> >> >>> thanks from Mark 2w0jmk
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1679. Re: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-22 22:08:19 UTC
From: Steve Drury
Topic: 1668 Message: 1679

Hi Mike, I had asumed it was the mod in the files section... I'm sure a plastic capacitor would be suitable but perhaps Brian would like to comment.

Steve G6ALU

----- Original Message -----
From: "panzerbeeb" <mike_mobbs@...>
To: <mkars80@...>
Sent: Thursday, April 22, 2010 9:30 PM
Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP

> Hi Mark Steve and all,
> The VFO mod I used was proposed by G8DIU. Here are copies of his 2 posts
> some time ago regarding his design:
> QUOTE
> Hi All, A great little kit, so thanks Steve.
> Mod 1. Changing C59 and 60 from polyester to POLYSTYRENE
> dramatically reduces the VFO drift.
> Mod 2. By removing the Tuning capacitor and replacing it with a 10
> turn 10K pot and 2 MVAM109 diodes in series makes tuning really
> easy.Approx 100pf is needed to couple to the original Tuning
> Capacitor point.A 1 meg resistor provides an earth connection, from
> the junction of the top diode and the 100pF coupling capacitor.The
> tuning voltage is fed via a 470K resistor from the 0.1uF capacitor
> decoupled slider of a 10 turn pot. where the diodes are connected
> togeter.
> One end of the pot goes to the +8V stab . rail and the other end of
> the pot is earthed. Get it the right way round means clockwise
> rotation of the pot increases the 3.6 MHz frequency to 3.8 Mhz
> Series Varicap diodes are connected together at their positive
> connections, this is the 470K control voltage point and one neg. end
> goes to earth, the old tuning cap earth connection, the other neg.
> diode end going to the 1 Meg to earth Resistor and 100 pf point.
> Good luck all
> 73
> Brian G8DIU
> QUOTE
>
> and
>
> QUOTE
> Hi
> Some words for guidance re Messagage 353.
> Polystyrene Capacitors have a colour coded end, being tubular, that
> denotes the outer foil. This should always be connected to the lowest
> RF potential, e.g OV or earth if possible or as near.

> The top coupling capacitor, from the Varicap. comprises a Ceramic NPO
> 22pF in parallel with a polystyrene 82 pF capacitor. Low value NPO
> capacitors usually have a black panted top.
> Series connected MVAM109 diodes are connected this way to prevent
> forward conduction, due to high circulating RF voltages, that can
> cause spurious responses and thus strange effects. MVAM109s are used
> in Medium Wave designs so series connection halves their effective
> Capacitance swing which is fine in the narrow band MKARS80 application.
> I hope this of use/interest.
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>> I'm not the author of that mod but I suspect the leakage is the most
>> important thing so perhaps a plastic type (mylar / polyester) type would
>> be
>> suitable - perhaps VE3XJ would like to comment.
>>
>> Steve
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>> From: "mark" <mw3hqt@...>
>> To: <mkars80@...>
>> Sent: Thursday, April 22, 2010 7:28 PM
>> Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP
>>
>>
>> > steve just for your info the two caps i need are for the varactor
>> > tuning
>> > mod i am using a 100nf cap now but they are not npo ones
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>> >> Took a while for the penny to drop! There are two 1nF (IE 1000pF) NP0
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1680. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-24 22:04:05 UTC
From: mark
Topic: 1668 Message: 1680

hi can anyone point me in the right direction for 4 mvam109's in the uk

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Mike, I had asumed it was the mod in the files section... I'm sure a
> plastic capacitor would be suitable but perhaps Brian would like to comment.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "panzerbeeb" <mike_mobbs@...>
> To: <mkars80@...>
> Sent: Thursday, April 22, 2010 9:30 PM
> Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP
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> > Hi Mark Steve and all,
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> > turn 10K pot and 2 MVAM109 diodes in series makes tuning really
> > easy.Approx 100pf is needed to couple to the original Tuning
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> > Good luck all
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> > Brian G8DIU
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> > QUOTE
> > Hi
> > Some words for guidance re Messagage 353.
> > Polystyrene Capacitors have a colour coded end, being tubular, that
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> > The top coupling capacitor, from the Varicap. comprises a Ceramic NPO
> > 22pF in parallel with a polystyrene 82 pF capacitor. Low value NPO
> > capacitors usually have a black panted top.
> > Series connected MVAM109 diodes are connected this way to prevent
> > forward conduction, due to high circulating RF voltages, that can
> > cause spurious responses and thus strange effects. MVAM109s are used
> > in Medium Wave designs so series connection halves their effective
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> >> Hi Mark,
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> >> I'm not the author of that mod but I suspect the leakage is the most
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> >> To: <mkars80@...>
> >> Sent: Thursday, April 22, 2010 7:28 PM
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> >> >> To: <mkars80@...>
> >> >> Sent: Wednesday, April 21, 2010 8:11 PM
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1681. Re: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-25 06:57:28 UTC
From: John YAHOO
Topic: 1668 Message: 1681

http://www.awatronic.co.uk/prod_3250.html

John G3UGY

> hi can anyone point me in the right direction for 4 mvam109's in the uk

[Non-text portions of this message have been removed]

1682. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-25 08:27:03 UTC
From: g4gcl
Topic: 1668 Message: 1682

Hi.

If you are a GQRP member they have them for 50p each + 60p P&P per order.

I'm sure there must be other places but that's an easy one!

73,

John G4GCL

--- In mkars80@..., "mark" <mw3hqt@...> wrote:
>
> hi can anyone point me in the right direction for 4 mvam109's in the uk
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> --- In mkars80@..., "Steve Drury" g6alu@ wrote:
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> > Hi Mike, I had asumed it was the mod in the files section... I'm sure a
> > plastic capacitor would be suitable but perhaps Brian would like to comment.
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> > Steve G6ALU
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> > ----- Original Message -----
> > From: "panzerbeeb" mike_mobbs@
> > To: mkars80@...
> > Sent: Thursday, April 22, 2010 9:30 PM
> > Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP
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> > > Hi Mark Steve and all,
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> > > Some words for guidance re Messagage 353.
> > > Polystyrene Capacitors have a colour coded end, being tubular,
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1683. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-25 09:34:11 UTC
From: mark
Topic: 1668 Message: 1683

Hi all thanks for you're help i have just emailed Graham and asked him if he can sell me 4 as the magazine says only 2 you can buy.
Thanks again from Mark 2w0jmk

--- In mkars80@..., "g4gcl" <john.g4gcl@...> wrote:
>
>
> Hi.
>
> If you are a GQRP member they have them for 50p each + 60p P&P per
> order.
>
> I'm sure there must be other places but that's an easy one!
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> 73,
>
> John G4GCL
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> type would
> > > >> be
> > > >> suitable - perhaps VE3XJ would like to comment.
> > > >>
> > > >> Steve
> > > >>
> > > >> ----- Original Message -----
> > > >> From: "mark" <mw3hqt@>
> > > >> To: mkars80@...
> > > >> Sent: Thursday, April 22, 2010 7:28 PM
> > > >> Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP
> > > >>
> > > >>
> > > >> > steve just for your info the two caps i need are for the
> varactor
> > > >> > tuning
> > > >> > mod i am using a 100nf cap now but they are not npo ones
> > > >> > mark 2w0jmk
> > > >> >
> > > >> >
> > > >> >
> > > >> >
> > > >> >
> > > >> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > > >> >>
> > > >> >> Took a while for the penny to drop! There are two 1nF (IE
> 1000pF) NP0
> > > >> >> capacitors in the kit, I don't have any 100nF NP0 types here,
> nor
> > > >> >> could I
> > > >> >> afford them!
> > > >> >>
> > > >> >> Steve G6ALU
> > > >> >>
> > > >> >> ----- Original Message -----
> > > >> >> From: "John YAHOO" <v321uk@>
> > > >> >> To: mkars80@...
> > > >> >> Sent: Wednesday, April 21, 2010 8:11 PM
> > > >> >> Subject: Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP

> > > >> >>
> > > >> >>
> > > >> >> > 100nF NPO ??
> > > >> >> >
> > > >> >> >
> > > >> >> >> Did you not get two 100nF NP0 capacitors in the kit? In any
> case
> > > >> >> >> send
> > > >> >> >> me
> > > >> >> >> an
> > > >> >> >> SAE and I will post you some.
> > > >> >> >>
> > > >> >> >> Radio-Kits
> > > >> >> >> 25 Crosslands,
> > > >> >> >> Stantonbury,
> > > >> >> >> Milton Keynes,
> > > >> >> >> Bucks.
> > > >> >> >> MK14 6AY
> > > >> >> >>
> > > >> >> >> Steve G6ALU
> > > >> >> >>
> > > >> >> >> ----- Original Message -----
> > > >> >> >> From: "mark" <mw3hqt@>
> > > >> >> >> To: mkars80@...
> > > >> >> >> Sent: Wednesday, April 21, 2010 5:50 PM
> > > >> >> >> Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
> > > >> >> >>
> > > >> >> >>
> > > >> >> >>> Hi all i need two 100nf npo capacitors to stabilize my two
> modded
> > > >> >> >>> mkars'80s. I don't now if G8EEY has the same problem but
> my two
> > > >> >> >>> radios
> > > >> >> >>> tend to drift with temperature.
> > > >> >> >>> thanks from Mark 2w0jmk
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1684. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-25 10:30:09 UTC
From: g4gcl
Topic: 1668 Message: 1684

Hi Mark.

I read it as meaning you can only buy 2 of the BB105's which is how it appears on the website but looking at the latest SPRAT you are right.

Sorry about that [:(]

73,

John

--- In mkars80@..., "mark" <mw3hqt@...> wrote:
>
> Hi all thanks for you're help i have just emailed Graham and asked him if he can sell me 4 as the magazine says only 2 you can buy.
> Thanks again from Mark 2w0jmk
>
> --- In mkars80@..., "g4gcl" john.g4gcl@ wrote:
> >
> >
> > Hi.
> >
> > If you are a GQRP member they have them for 50p each + 60p P&P per
> > order.
> >
> > I'm sure there must be other places but that's an easy one!
> >
> > 73,
> >
> > John G4GCL
> >
> >
> > --- In mkars80@..., "mark" <mw3hqt@> wrote:
> > >
> > > hi can anyone point me in the right direction for 4 mvam109's in
the
> > uk
> > >
> > > --- In mkars80@..., "Steve Drury" g6alu@ wrote:
> > > >
> > > > Hi Mike, I had asumed it was the mod in the files section... I'm
> > sure a
> > > > plastic capacitor would be suitable but perhaps Brian would like
to
> > comment.
> > > >

> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----
> > > > From: "panzerbeeb" mike_mobbs@
> > > > To: mkars80@...
> > > > Sent: Thursday, April 22, 2010 9:30 PM
> > > > Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP
> > > > >
> > > > >
> > > > > Hi Mark Steve and all,
> > > > > The VFO mod I used was proposed by G8DIU. Here are copies of
his 2
> > posts
> > > > > some time ago regarding his design:
> > > > > QUOTE
> > > > > Hi All, A great little kit, so thanks Steve.
> > > > > Mod 1. Changing C59 and 60 from polyester to POLYSTYRENE
> > > > > dramatically reduces the VFO drift.
> > > > > Mod 2. By removing the Tuning capacitor and replacing it with
a 10
> > > > > turn 10K pot and 2 MVAM109 diodes in series makes tuning
really
> > > > > easy.Approx 100pf is needed to couple to the original Tuning
> > > > > Capacitor point.A 1 meg resistor provides an earth connection,
> > from
> > > > > the junction of the top diode and the 100pF coupling
capacitor.The
> > > > > tuning voltage is fed via a 470K resistor from the 0.1uF
capacitor
> > > > > decoupled slider of a 10 turn pot. where the diodes are
connected
> > > > > togeter.
> > > > > One end of the pot goes to the +8V stab . rail and the other
end
> > of
> > > > > the pot is earthed. Get it the right way round means clockwise
> > > > > rotation of the pot increases the 3.6 MHz frequency to 3.8 Mhz
> > > > > Series Varicap diodes are connected together at their positive
> > > > > connections, this is the 470K control voltage point and one
neg.
> > end
> > > > > goes to earth, the old tuning cap earth connection, the other
neg.
> > > > > diode end going to the 1 Meg to earth Resistor and 100 pf
point.
> > > > > Good luck all
> > > > > 73
> > > > > Brian G8DIU
> > > > > QUOTE
> > > > >

> > > > > and
> > > > >
> > > > > QUOTE
> > > > > Hi
> > > > > Some words for guidance re Messagage 353.
> > > > > Polystyrene Capacitors have a colour coded end, being tubular,
> > that
> > > > > denotes the outer foil. This should always be connected to the
> > lowest
> > > > > RF potential, e.g OV or earth if possible or as near.
> > > > > The top coupling capacitor, from the Varicap. comprises a
Ceramic
> > NPO
> > > > > 22pF in parallel with a polystyrene 82 pF capacitor. Low value
NPO
> > > > > capacitors usually have a black panted top.
> > > > > Series connected MVAM109 diodes are connected this way to
prevent
> > > > > forward conduction, due to high circulating RF voltages, that
can
> > > > > cause spurious responses and thus strange effects. MVAM109s
are
> > used
> > > > > in Medium Wave designs so series connection halves their
effective
> > > > > Capacitance swing which is fine in the narrow band MKARS80
> > application.
> > > > > I hope this of use/interest.
> > > > > 73
> > > > > Brian G8DIU
> > > > > QUOTE
> > > > >
> > > > > 73s Mike G8EEY.
> > > > >
> > > > > --- In mkars80@..., "Steve Drury" <g6alu@>
wrote:
> > > > >>
> > > > >> Hi Mark,
> > > > >>
> > > > >> I'm not the author of that mod but I suspect the leakage is
the
> > most
> > > > >> important thing so perhaps a plastic type (mylar / polyester)
> > type would
> > > > >> be
> > > > >> suitable - perhaps VE3XJ would like to comment.
> > > > >>
> > > > >> Steve
> > > > >>
> > > > >> ----- Original Message -----

> > > > >> From: "mark" <mw3hqt@>
> > > > >> To: mkars80@...
> > > > >> Sent: Thursday, April 22, 2010 7:28 PM
> > > > >> Subject: [mkars80] Re: HELP I CAN'T FIND A 100NF NPO CAP
> > > > >>
> > > > >>
> > > > >> > steve just for your info the two caps i need are for the
> > varactor
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> > > > >> > mod i am using a 100nf cap now but they are not npo ones
> > > > >> > mark 2w0jmk
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> > > > >> >
> > > > >> --- In mkars80@..., "Steve Drury" <g6alu@>
wrote:
> > > > >>
> > > > >> Took a while for the penny to drop! There are two 1nF (IE
> > 1000pF) NP0
> > > > >> capacitors in the kit, I don't have any 100nF NP0 types
here,
> > nor
> > > > >> could I
> > > > >> afford them!
> > > > >>
> > > > >> Steve G6ALU
> > > > >>
> > > > >> ----- Original Message -----
> > > > >> From: "John YAHOO" <v321uk@>
> > > > >> To: mkars80@...
> > > > >> Sent: Wednesday, April 21, 2010 8:11 PM
> > > > >> Subject: Re: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
> > > > >>
> > > > >>
> > > > >> > 100nF NPO ??
> > > > >> >
> > > > >> >
> > > > >> Did you not get two 100nF NP0 capacitors in the kit? In
any
> > case
> > > > >> send
> > > > >> me
> > > > >> an
> > > > >> SAE and I will post you some.
> > > > >>
> > > > >> Radio-Kits
> > > > >> 25 Crosslands,
> > > > >> Stantonbury,

> > > > >> >> >> Milton Keynes,
> > > > >> >> >> Bucks.
> > > > >> >> >> MK14 6AY
> > > > >> >> >>
> > > > >> >> >> Steve G6ALU
> > > > >> >> >>
> > > > >> >> >> ----- Original Message -----
> > > > >> >> >> From: "mark" <mw3hqt@>
> > > > >> >> >> To: mkars80@...
> > > > >> >> >> Sent: Wednesday, April 21, 2010 5:50 PM
> > > > >> >> >> Subject: [mkars80] HELP I CAN'T FIND A 100NF NPO CAP
> > > > >> >> >>
> > > > >> >> >>
> > > > >> >> >>> Hi all i need two 100nf npo capacitors to stabilize my
two
> > modded
> > > > >> >> >>> mkars'80s. I don't now if G8EEY has the same problem
but
> > my two
> > > > >> >> >>> radios
> > > > >> >> >>> tend to drift with temperature.
> > > > >> >> >>> thanks from Mark 2w0jmk
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[Non-text portions of this message have been removed]

1685. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-04-25 14:54:56 UTC
From: mark
Topic: 1668 Message: 1685

Thanks all for the help I am now sorted (Good old Sprats to the rescue).

NOW THAT'S ALL I NEED NOW ARE A PHOTO OR TWO OF THE MOD HI HI

1686. MKRAS40

Yahoo group: mkars80
Date: 2010-04-30 11:13:00 UTC
From: zip
Topic: 1686 Message: 1686

Hi Steve & Fellow members,

Only just realised that I was still using a dead email account for the group, correct address now set.

Sorry if I'm going over any old ground, but where did we get to regarding the 40m mods or new kit?

Phil

1687. Re: [mkars80] MKRAS40

Yahoo group: mkars80
Date: 2010-05-02 09:30:54 UTC
From: Clive Reynolds
Topic: 1686 Message: 1687

Hi All

I would also be very interested to hear if there is any progress on a 40m version

Clive G3GJA / G8EQZ

----- Original Message -----
From: zip
To: mkars80@...
Sent: Friday, April 30, 2010 12:13 PM
Subject: [mkars80] MKRAS40

Hi Steve & Fellow members,

Only just realised that I was still using a dead email account for the group, correct address now set.

Sorry if I'm going over any old ground, but where did we get to regarding the 40m mods or new kit?

Phil

1688. Re: [mkars80] MKRAS40

Yahoo group: mkars80
Date: 2010-05-02 09:30:54 UTC
From: Clive Reynolds
Topic: 1686 Message: 1688

Hi All

I would also be very interested to hear if there is any progress on a 40m version

Clive G3GJA / G8EQZ

----- Original Message -----
From: zip
To: mkars80@...
Sent: Friday, April 30, 2010 12:13 PM
Subject: [mkars80] MKRAS40

Hi Steve & Fellow members,

Only just realised that I was still using a dead email account for the group, correct address now set.

Sorry if I'm going over any old ground, but where did we get to regarding the 40m mods or new kit?

Phil

HESH Computer Services Ltd
12 Louis Pearlman Centre
Goulton Street
Hull HU3 4DL

Tel: 0845 1662725
Web: www.hesh.co.uk
Registered in England No. 3003479
VAT No. 647 3679 95

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[Non-text portions of this message have been removed]

1689. Re: [mkars80] MKRAS40

Yahoo group: mkars80
Date: 2010-05-02 10:21:47 UTC
From: Steve Drury
Topic: 1686 Message: 1689

All,

I tried to modify an MKARS80 to 40M but was left with a problem; the dynamic range wasn't adequate for use on 40M. While listening to a low signal amateur station broadcast signals could overload the early stages. This was easy to cure by having a separate volume control and increasing the audio gain but this gave two other problems; to do a "proper job" a new PCB was required and there was a loud thump through the speaker on TX / RX transitions.

I'm often asked for other bands; 160, 40, and 20M so have started development of a radio more suitable for general HF use. I can't give any more information at the moment as my thoughts are still evolving and only basic design and testing have been done. The MKARS80 will continue to be sold whatever happens with a new radio, there seems little point changing something that works so well.

Steve G6ALU

----- Original Message -----
From: "Clive Reynolds" <clive@...>
To: <mkars80@...>
Sent: Sunday, May 02, 2010 10:30 AM
Subject: Re: [mkars80] MKRAS40

> Hi All
>
> I would also be very interested to hear if there is any progress on a 40m
> version
>
> Clive G3GJA / G8EQZ
>
>
> ----- Original Message -----
> From: zip
> To: mkars80@...
> Sent: Friday, April 30, 2010 12:13 PM
> Subject: [mkars80] MKRAS40
>
>
>
> Hi Steve & Fellow members,
>
> Only just realised that I was still using a dead email account for the
> group, correct address now set.
>

> Sorry if I'm going over any old ground, but where did we get to regarding
> the 40m mods or new kit?
>
> Phil
>
>
>
>
> HESH Computer Services Ltd
> 12 Louis Pearlman Centre
> Goulton Street
> Hull HU3 4DL
>
> Tel: 0845 1662725
> Web: www.hesh.co.uk
> Registered in England No. 3003479
> VAT No. 647 3679 95
>
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> immediately. The views expressed in this email are those of the originator
> and not necessarily those held by HESH Computer Services Ltd, who do not
> accept liability for any action taken in reliance on the contents of this
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> been transmitted by this email.
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1690. RE: [mkars80] MKRAS40

Yahoo group: mkars80
Date: 2010-05-03 14:57:18 UTC
From: Phil
Topic: 1686 Message: 1690

Hi Steve,

The new project sounds interesting, you certainly have one customer here for a prototype when it becomes available, if I could help in any way let me know.

Phil

From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 02 May 2010 11:22
To: mkars80@...
Subject: Re: [mkars80] MKRAS40

All,

I tried to modify an MKARS80 to 40M but was left with a problem; the dynamic

range wasn't adequate for use on 40M. While listening to a low signal amateur station broadcast signals could overload the early stages. This was easy to cure by having a separate volume control and increasing the audio gain but this gave two other problems; to do a "proper job" a new PCB was required and there was a loud thump through the speaker on TX / RX transitions.

I'm often asked for other bands; 160, 40, and 20M so have started development of a radio more suitable for general HF use. I can't give any more information at the moment as my thoughts are still evolving and only basic design and testing have been done. The MKARS80 will continue to be sold whatever happens with a new radio, there seems little point changing something that works so well.

Steve G6ALU

----- Original Message -----
From: "Clive Reynolds" <clive@.... <mailto:clive%40hesh.co.uk> uk>
To: <mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk>
Sent: Sunday, May 02, 2010 10:30 AM
Subject: Re: [mkars80] MKRAS40

> Hi All
>
> I would also be very interested to hear if there is any progress on a 40m
> version
>
> Clive G3GJA / G8EQZ

>
>
> ----- Original Message -----
> From: zip
> To: mkars80@yahoogroups <mailto:mkars80%40yahoogroups.co.uk> .co.uk
> Sent: Friday, April 30, 2010 12:13 PM
> Subject: [mkars80] MKRAS40
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>
>
> Hi Steve & Fellow members,
>
> Only just realised that I was still using a dead email account for the
> group, correct address now set.
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> Sorry if I'm going over any old ground, but where did we get to regarding
> the 40m mods or new kit?
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> Phil
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>
> HESH Computer Services Ltd
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> been transmitted by this email.
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1691. Re: HELP I CAN'T FIND A 100NF NPO CAP

Yahoo group: mkars80
Date: 2010-05-03 19:00:53 UTC
From: mark
Topic: 1668 Message: 1691

Hi me again now i am struggling trying to follow the info below. G8EEY Mick can you help me out here with say a photo or two of the mod ad a diagram from Mark 2w0jmk

--- In mkars80@..., "panzerbeeb" <mike_mobbs@...> wrote:
>
> Hi Mark Steve and all,
> The VFO mod I used was proposed by G8DIU. Here are copies of his 2 posts some time ago regarding his design:
> QUOTE
> Hi All, A great little kit, so thanks Steve.
> Mod 1. Changing C59 and 60 from polyester to POLYSTYRENE
> dramatically reduces the VFO drift.
> Mod 2. By removing the Tuning capacitor and replacing it with a 10
> turn 10K pot and 2 MVAM109 diodes in series makes tuning really
> easy.Approx 100pf is needed to couple to the original Tuning
> Capacitor point.A 1 meg resistor provides an earth connection, from
> the junction of the top diode and the 100pF coupling capacitor.The
> tuning voltage is fed via a 470K resistor from the 0.1uF capacitor
> decoupled slider of a 10 turn pot. where the diodes are connected
> togeter.
> One end of the pot goes to the +8V stab . rail and the other end of
> the pot is earthed. Get it the right way round means clockwise
> rotation of the pot increases the 3.6 MHz frequency to 3.8 Mhz
> Series Varicap diodes are connected together at their positive
> connections, this is the 470K control voltage point and one neg. end
> goes to earth, the old tuning cap earth connection, the other neg.
> diode end going to the 1 Meg to earth Resistor and 100 pf point.
> Good luck all
> 73
> Brian G8DIU
> QUOTE
>
> and
>
> QUOTE
> Hi
> Some words for guidance re Messagage 353.
> Polystyrene Capacitors have a colour coded end, being tubular, that
> denotes the outer foil. This should always be connected to the lowest
> RF potential, e.g OV or earth if possible or as near.
> The top coupling capacitor, from the Varicap. comprises a Ceramic NPO
> 22pF in parallel with a polystyrene 82 pF capacitor. Low value NPO
> capacitors usually have a black panted top.
> Series connected MVAM109 diodes are connected this way to prevent
> forward conduction, due to high circulating RF voltages, that can

> cause spurious responses and thus strange effects. MVAM109s are used
> in Medium Wave designs so series connection halves their effective
> Capacitance swing which is fine in the narrow band MKARS80 application.
> I hope this of use/interest.
> 73
> Brian G8DIU
> QUOTE
>
> 73s Mike G8EEY.
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Hi Mark,
> >
> > I'm not the author of that mod but I suspect the leakage is the most
> > important thing so perhaps a plastic type (mylar / polyester) type would be
> > suitable - perhaps VE3XJ would like to comment.
> >
> > Steve

1692. A simple AGC (Audio compressor)

Yahoo group: mkars80
Date: 2010-05-20 10:25:03 UTC
From: Bengt
Topic: 1692 Message: 1692

It's very unpleasant to work a weak station and strong staion is calling in, especially when you are using headphones.

I'm using an old trick, often used in Wienbridge oscillators in the past.

One 22 Ohm resistor is connected to speaker out. a lamp, 3V/50mA, connects between the 22 Ohm resistor and ground.
Parallel to the lamp is a 10k pot. The center of the pot goes to LM386 pin 2, You have to disconnect that pin from ground.

A lamp is in a sense a PTC resistor, thats why they does'nt burn up ;)

It will glow when there is a strong signal, which will increase the negative feedback with a lower audio gain as result!

The pot. is used to set the working point.

A side effect is that you can use the lamp as a simple S-meter.

This simple AGC will not cure very strong signals but it has made my QRP life a lot easier ;)

73
SM0KBW / Ben

1693. Dunstable Downs Car Boot Sale

Yahoo group: mkars80
Date: 2010-05-21 17:34:11 UTC
From: Steve Drury
Topic: 1693 Message: 1693

Just to remind the UK contingent that its the Dunstable Downs Car Boot sale this Sunday - Radio-Kits should be there and hopefully the weather will be kind to us this year!

If any one is visiting and wishes to pick any spare parts up off us please let us know in advance so we have them available.

See http://www.ddrcbootsale.org/

Steve G6ALU

[Non-text portions of this message have been removed]

1694. SWR Meter

Yahoo group: mkars80
Date: 2010-05-26 18:24:04 UTC
From: Adrian Rees
Topic: 1693 Message: 1694

Hi Steve, all

I noticed on your website, a brief page relating to a SWR meter. I need to make a remote SWR meter (and I possible a remote Power meter) for a project I am building. With this in mind do you (or anyone else) know of a kit to construct a remote SWR /Power meter.

Cheers

PS....any news on a 7MHz kit ?

Cheers

Adrian MW1LCR

1695. Many Thanks-Steve

Yahoo group: mkars80
Date: 2010-05-27 08:08:18 UTC
From: g8xlh
Topic: 1695 Message: 1695

Hi,

I would just like to say a "public" thank you for a very interesting talk by Steve last night at the Peterborough club. It was interesting to hear the design concept relating to other QRP Kits.

Having built the MKARS80 Kit it was interesting to hear about the idea of introducing a slow motion drive to the "tune" control and also get an update to the PIC chip, as mine was a very early one.

Many Thanks

Alan G8XLH

1696. Re: Slow Mo drive

Yahoo group: mkars80
Date: 2010-05-27 14:04:23 UTC
From: STEVE
Topic: 111 Message: 1696

Hi,

I see that Mainline do a range of slow-mo drives. Which model do people recommend?

Steve G0KYA

1697. Re: [mkars80] Re: Slow Mo drive

Yahoo group: mkars80
Date: 2010-05-27 18:04:20 UTC
From: Steve Drury
Topic: 111 Message: 1697

The part you need is 6020/2 ,this is the 6mm version.

Steve G6ALU

----- Original Message -----
From: "STEVE" <steve@...>
To: <mkars80@...>
Sent: Thursday, May 27, 2010 3:04 PM
Subject: [mkars80] Re: Slow Mo drive

> Hi,
>
> I see that Mainline do a range of slow-mo drives. Which model do people
> recommend?
>
> Steve G0KYA
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

1698. Hello all

Yahoo group: mkars80
Date: 2010-05-27 19:13:24 UTC
From: syebolton
Topic: 1698 Message: 1698

Hi to all members just joined up, looks a very intresting group Steve G6ALU suggested i join here, i contacted steve earlier saking if he knew of any ready made mkars80 that were for sale, as my eyesight it not was it used to be and was looking to buy a ready made radio,so if anybody has a radio for sale could you please get in contact my email is syebolton@...

Regards Simon.

1699. Re: [mkars80] Many Thanks-Steve

Yahoo group: mkars80
Date: 2010-05-27 21:16:37 UTC
From: Steve Drury
Topic: 1695 Message: 1699

Thanks for the hospitality Alan, Calvin M1EPM and myself enjoyed doing the talk and the enthusiasm of your club members.

Steve G6ALU

----- Original Message -----
From: "g8xlh" <a.ralph4@...>
To: <mkars80@...>
Sent: Thursday, May 27, 2010 9:08 AM
Subject: [mkars80] Many Thanks-Steve

> Hi,
>
> I would just like to say a "public" thank you for a very interesting talk
> by Steve last night at the Peterborough club. It was interesting to hear
> the design concept relating to other QRP Kits.
>
> Having built the MKARS80 Kit it was interesting to hear about the idea of
> introducing a slow motion drive to the "tune" control and also get an
> update to the PIC chip, as mine was a very early one.
>
> Many Thanks
>
> Alan G8XLH
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> Yahoo! Groups Links
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1700. Re: [mkars80] SWR Meter

Yahoo group: mkars80
Date: 2010-05-27 21:19:17 UTC
From: Steve Drury
Topic: 1693 Message: 1700

Adrian,

You can use that SWR meter design remotely from the detector head without a problem but that code won't calculate power output. I had been working on a digital SWR / power meter but its been shelved while I look at other projects.

No progress on 40M I'm afraid - I decided it would need a new PCB so didn't take it any further.

Steve

----- Original Message -----
From: "Adrian Rees " <rees.a@...>
To: <mkars80@...>
Sent: Wednesday, May 26, 2010 7:24 PM
Subject: [mkars80] SWR Meter

> Hi Steve, all
>
> I noticed on your website, a brief page relating to a SWR meter. I need to
> make a remote SWR meter (and I possible a remote Power meter) for a
> project
> I am building. With this in mind do you (or anyone else) know of a kit to
> construct a remote SWR /Power meter.
>
> Cheers
>
> PS....any news on a 7MHz kit ?
>
> Cheers
>
> Adrian MW1LCR
>
>
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>
> Yahoo! Groups Links
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1701. RE: [mkars80] SWR Meter

Yahoo group: mkars80
Date: 2010-05-28 15:11:55 UTC
From: Adrian Rees
Topic: 1693 Message: 1701

Hi Steve
Thanks.

I have found some other links which may provide some more information. I'm building 4 Square's for 80 & 40 and want to measure the SWR and Power being dumped into a dummy load. (I'm using the Collins method of Phasing). Hence a remote SWR and Power meter would be very useful.

Thanks, I'll continue my research.

Adrian MW1LCR

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 27 May 2010 22:19
To: mkars80@...
Subject: Re: [mkars80] SWR Meter

Adrian,

You can use that SWR meter design remotely from the detector head without a problem but that code won't calculate power output. I had been working on a digital SWR / power meter but its been shelved while I look at other projects.

No progress on 40M I'm afraid - I decided it would need a new PCB so didn't take it any further.

Steve

----- Original Message -----
From: "Adrian Rees " <rees.a@btconnect.com>
To: <mkars80@...>
Sent: Wednesday, May 26, 2010 7:24 PM
Subject: [mkars80] SWR Meter

> Hi Steve, all
>
> I noticed on your website, a brief page relating to a SWR meter. I
> need to make a remote SWR meter (and I possible a remote Power meter)
> for a project I am building. With this in mind do you (or anyone else)
> know of a kit to construct a remote SWR /Power meter.
>
> Cheers
>
> PS....any news on a 7MHz kit ?

>
> Cheers
>
> Adrian MW1LCR
>
>
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> Yahoo! Groups Links
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Yahoo! Groups Links

1702. New owner

Yahoo group: mkars80
Date: 2010-06-11 10:51:06 UTC
From: Mark Hickford
Topic: 1702 Message: 1702

Hi all,

Just bought the kit earlier this week, brilliant communication from Steve; i emailed him at around midnight 1 night asking about ordering one and had a reply at about 8 the next morning and delivery was very quick too.

Looking forward to getting started on it, I haven't built loads of kits so it might take me a while. The only bits I'm thinking I may have issues with are the toroid windings, but we'll cross that bridge when we come to it!

73 DE M0MJH (Mark)

1703. Deaf Rx

Yahoo group: mkars80
Date: 2010-06-16 15:58:57 UTC
From: g0wbm
Topic: 1703 Message: 1703

Hello All,
I'm new to the group, names Ken , call g8beq Glossop, Derbyshire.
I;ve just built the MKARS80 V1.3 and find that there is almost no
signal comming through the Rx [not got round to testing the Tx yet hi].
There seems to be a very high loss in the crystal filter. I can just
about detect noise from the speaker but if I bypass the filter there is quite a noticable
increase in noise. If I feed a sig genny into the filter there appears to be over 20dB
loss, this seems a bit high, I would appreciate comments from any who've measured the
filter loss.
I need several mV input into the filter before I can hear anything.
I have tried bypassing each crystal of the filter individually without
any effect. The sig genny set to give a certain level of audio when
injected across the back to back diodes on the OP of the filter is barely detectable when
tapped into any of the crystals of the filter.
Any comments welcome.
73 Ken g8beq

1704. Re: [mkars80] Deaf Rx

Yahoo group: mkars80
Date: 2010-06-16 18:05:35 UTC
From: Steve Drury
Topic: 1703 Message: 1704

Ken,

Make sure none of the crystal legs is shorted to ground - this can happen if too much solder wicks up the crystal lead - simply measure each crystal pad to ground.

A more likely cause is a poor soldered joints on one of the mixer transformers; make sure the enamel has broken down on all of the connections allowing them to solder properly.

Regards,
Steve G6ALU

----- Original Message -----
From: "g0wbm" <g0wbm@...>
To: <mkars80@...>
Sent: Wednesday, June 16, 2010 4:58 PM
Subject: [mkars80] Deaf Rx

> Hello All,
> I'm new to the group, names Ken , call g8beq Glossop, Derbyshire.
> I;ve just built the MKARS80 V1.3 and find that there is almost no
> signal comming through the Rx [not got round to testing the Tx yet hi].
> There seems to be a very high loss in the crystal filter. I can just
> about detect noise from the speaker but if I bypass the filter there is
> quite a noticable increase in noise. If I feed a sig genny into the
> filter there appears to be over 20dB loss, this seems a bit high, I would
> appreciate comments from any who've measured the filter loss.
> I need several mV input into the filter before I can hear anything.
> I have tried bypassing each crystal of the filter individually without
> any effect. The sig genny set to give a certain level of audio when
> injected across the back to back diodes on the OP of the filter is barely
> detectable when tapped into any of the crystals of the filter.
> Any comments welcome.
> 73 Ken g8beq
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1705. Re: [mkars80] Deaf Rx

Yahoo group: mkars80
Date: 2010-06-16 18:48:13 UTC
From: K.Greenough
Topic: 1703 Message: 1705

Hello Steve,
I did consider that one or more crystals could be shorted to
ground but they all show open circuit [to ground] when checked.
When building up I did consider putting some PTFE spacers
under the crystals, I've got lots salvaged from PMR sets etc, but
I couldn't find them hi. If you saw my garage you'd understand that.
OK on the transformers. I did check each winding for continuity
when building but I'll certainly check again. That said, I need to put
over 100mV into the filter input to hear anything in the speaker.
A couple of mV on the filter output is deafening. And the transformers
are before the filter.. I'm very impressed with the quality of the kit by the
way, my friend, Keith g8inc, ordered kits for himself and myself just a
few days ago. However there a lot of components and the chances of me
having made a mistake are high. I've put it to one side for a couple of days
and then I'll look again with fresh eyes hi.
73 Ken g8beq

[Non-text portions of this message have been removed]

1706. Re: [mkars80] Deaf Rx

Yahoo group: mkars80
Date: 2010-06-16 19:04:45 UTC
From: Steve Drury
Topic: 1703 Message: 1706

OK Ken, first do a voltage check... if all else fails you know where to send it for repair!

Steve

----- Original Message -----
From: "K.Greenough" <g0wbm@...>
To: <mkars80@...>
Sent: Wednesday, June 16, 2010 7:48 PM
Subject: Re: [mkars80] Deaf Rx

> Hello Steve,
> I did consider that one or more crystals could be shorted to
> ground but they all show open circuit [to ground] when checked.
> When building up I did consider putting some PTFE spacers
> under the crystals, I've got lots salvaged from PMR sets etc, but
> I couldn't find them hi. If you saw my garage you'd understand that.
> OK on the transformers. I did check each winding for continuity
> when building but I'll certainly check again. That said, I need to put
> over 100mV into the filter input to hear anything in the speaker.
> A couple of mV on the filter output is deafening. And the transformers
> are before the filter.. I'm very impressed with the quality of the kit
> by the
> way, my friend, Keith g8inc, ordered kits for himself and myself just a
> few days ago. However there a lot of components and the chances of me
> having made a mistake are high. I've put it to one side for a couple of
> days
> and then I'll look again with fresh eyes hi.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1707. MKARS80 on ebay

Yahoo group: mkars80
Date: 2010-06-17 12:15:38 UTC
From: hamlab3
Topic: 1707 Message: 1707

Interesting to see there is an MKARS80 on ebay - looks well made and with an un-assebled CW adapter.

ebay number 220622020641 .

Steve

1708. Hi, new builder

Yahoo group: mkars80
Date: 2010-06-21 16:00:40 UTC
From: zaktherabbit
Topic: 1708 Message: 1708

Hi All,

just bought the kit, extremely impressed by the excellent quality of the PCB. Had about 3h at it so far, but most of that was casually doing a check-count to ensure everything was complete. Just about to start winding the trifilar transformers.

Thanks to Steve for great service, and a bit of friendly banter as well. Kit arrived virtually next day (ordered late evening)

Looking forward to getting it on-air

Martin G7MRV

1709. T1,T3 Which way up on circuit board?

Yahoo group: mkars80
Date: 2010-06-21 19:20:18 UTC
From: richard_forss
Topic: 1709 Message: 1709

OK, Got this far without incident. About to solder T1 and T3, but not indication of which way around these go on the PCB.

Am I missing something? Does it matter? The manual clearly shows how to install T4,T5 and T6 transformers, but does not shwo the same detaul for T1,T3.

Thanks in advance...

Richard Forss M6IXI

1710. Re: [mkars80] T1,T3 Which way up on circuit board?

Yahoo group: mkars80
Date: 2010-06-21 19:34:06 UTC
From: Steve Drury
Topic: 1709 Message: 1710

Hi Richard,

I didn't make it clear in the manual - it doesn't matter which way round
they go as each side has 5 turns.

Regards,
Steve G6ALU

----- Original Message -----
From: "richard_forss" <richard@...>
To: <mkars80@...>
Sent: Monday, June 21, 2010 8:20 PM
Subject: [mkars80] T1,T3 Which way up on circuit board?

> OK, Got this far without incident. About to solder T1 and T3, but not
> indication of which way around these go on the PCB.
>
> Am I missing something? Does it matter? The manual clearly shows how to
> install T4,T5 and T6 transformers, but does not shwo the same detaul for
> T1,T3.
>
> Thanks in advance...
>
> Richard Forss M6IXI
>
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> Yahoo! Groups Links
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1711. Re: T1,T3 Which way up on circuit board?

Yahoo group: mkars80
Date: 2010-06-21 19:38:20 UTC
From: richard_forss
Topic: 1709 Message: 1711

Cheers, just figured that out as well.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Richard,
>
> I didn't make it clear in the manual - it doesn't matter which way round
> they go as each side has 5 turns.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "richard_forss" <richard@...>
> To: <mkars80@...>
> Sent: Monday, June 21, 2010 8:20 PM
> Subject: [mkars80] T1,T3 Which way up on circuit board?
>
>
> > OK, Got this far without incident. About to solder T1 and T3, but not
> > indication of which way around these go on the PCB.
> >
> > Am I missing something? Does it matter? The manual clearly shows how to
> > install T4,T5 and T6 transformers, but does not shwo the same detaul for
> > T1,T3.
> >
> > Thanks in advance...
> >
> > Richard Forss M6IXI
> >
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> > Yahoo! Groups Links
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>

1712. Re: T1,T3 Which way up on circuit board?

Yahoo group: mkars80
Date: 2010-06-21 19:36:35 UTC
From: richard_forss
Topic: 1709 Message: 1712

Think I figured it out. No need to worry about orientation as it has the same windings either way, Just looked at photo and I'll put A on left and B on right.

--- In mkars80@..., "richard_forss" <richard@...> wrote:
>
> OK, Got this far without incident. About to solder T1 and T3, but not indication of which way around these go on the PCB.
>
> Am I missing something? Does it matter? The manual clearly shows how to install T4,T5 and T6 transformers, but does not shwo the same detaul for T1,T3.
>
> Thanks in advance...
>
> Richard Forss M6IXI
>

1713. T4 a little 'untidy', should i rewind?

Yahoo group: mkars80
Date: 2010-06-22 22:36:42 UTC
From: zaktherabbit
Topic: 1713 Message: 1713

ive just realised, long after soldering in, that one turn on my T4 is not as tight into the core as i'd like, it sticks out a little either end. Not a lot, perhaps a quarter of a millimeter, just enough to be noticable. (these are the first trifilar bino cores ive ever wound, only ever done toroids before)

Is this likely to have an adverse effect on performance? my concern being that this is one of the two transformers for the diode-ring mixer, which of course must be balanced.

Is it ok, or should i pull it and rewind it?

Regards

Martin G7MRV

1714. Re: [mkars80] T4 a little 'untidy', should i rewind?

Yahoo group: mkars80
Date: 2010-06-23 05:57:23 UTC
From: Steve Drury
Topic: 1713 Message: 1714

Hi Martin,

No don't rewind it - be assured that yours is wound more carefully than any
of mine!

Steve G6ALU

----- Original Message -----
From: "zaktherabbit" <barfield673@...>
To: <mkars80@...>
Sent: Tuesday, June 22, 2010 11:36 PM
Subject: [mkars80] T4 a little 'untidy', should i rewind?

> ive just realised, long after soldering in, that one turn on my T4 is not
> as tight into the core as i'd like, it sticks out a little either end. Not
> a lot, perhaps a quarter of a millimeter, just enough to be noticable.
> (these are the first trifilar bino cores ive ever wound, only ever done
> toroids before)
>
> Is this likely to have an adverse effect on performance? my concern being
> that this is one of the two transformers for the diode-ring mixer, which
> of course must be balanced.
>
> Is it ok, or should i pull it and rewind it?
>
> Regards
>
> Martin G7MRV
>
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> Yahoo! Groups Links
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1715. MKARS80 on ebay

Yahoo group: mkars80
Date: 2010-06-23 12:18:38 UTC
From: hamlab3
Topic: 1707 Message: 1715

There is a partly constructed MKARS80 on ebay, item number 320551959976 £15 + £5 postage (we only charge £3 when new!).

I've no idea if it is complete or not.

Steve G6ALU

1716. Re: MKARS80 on ebay

Yahoo group: mkars80
Date: 2010-06-23 12:31:22 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 1707 Message: 1716

Hi Steve.

The same guy has had 2 'partly built' ones on there recently which kept being relisted at lower prices.

They seemed (after photoshopping around with his cr*p pictures) to be missing substantial numbers of parts. One appeared to have no crystals and one was missing most of the inductors. Neither seemed to have the PIC or display
I mailed him twice about them and their state of completeness and he never bothered to reply.
Hey ho - that's the joy of EeByGumBay I guess :-)

Slim G4IPZ

--- In mkars80@yahoogroups.co.uk, "hamlab3" <g6alu@...> wrote:
>
> There is a partly constructed MKARS80 on ebay, item number 320551959976 £15 + £5 postage (we only charge £3 when new!).
>
> I've no idea if it is complete or not.
>
> Steve G6ALU
>

1717. Re: T4 a little 'untidy', should i rewind?

Yahoo group: mkars80
Date: 2010-06-23 22:02:44 UTC
From: zaktherabbit
Topic: 1713 Message: 1717

fair enough! although im sure yours must be tidy, with so much more experience behind them. After winding those little beasties i actually enjoyed winding the toroids!

Just need to find a mic now, ive put the 'feelers' out at work, must be something lying about...

Martin G7MRV

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Hi Martin,
>
> No don't rewind it - be assured that yours is wound more carefully than any
> of mine!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "zaktherabbit" <barfield673@...>
> To: <mkars80@...>
> Sent: Tuesday, June 22, 2010 11:36 PM
> Subject: [mkars80] T4 a little 'untidy', should i rewind?
>
>
> > ive just realised, long after soldering in, that one turn on my T4 is not
> > as tight into the core as i'd like, it sticks out a little either end. Not
> > a lot, perhaps a quarter of a millimeter, just enough to be noticable.
> > (these are the first trifilar bino cores ive ever wound, only ever done
> > toroids before)
> >
> > Is this likely to have an adverse effect on performance? my concern being
> > that this is one of the two transformers for the diode-ring mixer, which
> > of course must be balanced.
> >
> > Is it ok, or should i pull it and rewind it?
> >
> > Regards
> >
> > Martin G7MRV
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> > Yahoo! Groups Links
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1718. Re: [mkars80] Re: T4 a little 'untidy', should i rewind?

Yahoo group: mkars80
Date: 2010-06-24 06:10:48 UTC
From: Steve Drury
Topic: 1713 Message: 1718

Any electret microphone (or low impedance dynamic with 1uF in series) will work - we use desk microphones intended for computor use but you need to wire to a new plug and add a PTT.

Steve G6ALU

----- Original Message -----
From: "zaktherabbit" <barfield673@...>
To: <mkars80@...>
Sent: Wednesday, June 23, 2010 11:02 PM
Subject: [mkars80] Re: T4 a little 'untidy', should i rewind?

> fair enough! although im sure yours must be tidy, with so much more
> experience behind them. After winding those little beasties i actually
> enjoyed winding the toroids!
>
> Just need to find a mic now, ive put the 'feelers' out at work, must be
> something lying about...
>
>
> Martin G7MRV
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hi Martin,
>>
>> No don't rewind it - be assured that yours is wound more carefully than
>> any
>> of mine!
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "zaktherabbit" <barfield673@...>
>> To: <mkars80@...>
>> Sent: Tuesday, June 22, 2010 11:36 PM
>> Subject: [mkars80] T4 a little 'untidy', should i rewind?
>>
>>
>> > ive just realised, long after soldering in, that one turn on my T4 is
>> > not
>> > as tight into the core as i'd like, it sticks out a little either end.
>> > Not
>> > a lot, perhaps a quarter of a millimeter, just enough to be noticable.
>> > (these are the first trifilar bino cores ive ever wound, only ever done
>> > toroids before)

>> >
>> > Is this likely to have an adverse effect on performance? my concern
>> > being
>> > that this is one of the two transformers for the diode-ring mixer,
>> > which
>> > of course must be balanced.
>> >
>> > Is it ok, or should i pull it and rewind it?
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>> > Regards
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>> > Martin G7MRV
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>> > Yahoo! Groups Links
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1719. Re: cheap speaker-mics?

Yahoo group: mkars80
Date: 2010-06-24 17:46:56 UTC
From: zaktherabbit
Topic: 1713 Message: 1719

Im hoping to get hold of a smallish speaker-mic, the sort used with handhelds. Annoyingly, there arn't any about at work, which is really annoying since we supply comms to most of the emergency services! You'd have thought there would be one kicking about!

I have PC type telephony headsets spare which will do for a test mic

ive seen cheap, obviously chinese import, generic speaker-mics for sale online, i wonder if anyone on here has made use of one of these? and if so how do they perform?

The only other mics i have spare are for older handhelds and radios, like pye and philips, which i'd rather not chop the plugs off

Martin G7MRV

--- In mkars80@....uk, "Steve Drury" <g6alu@...> wrote:
>
> Any electret microphone (or low impedance dynamic with 1uF in series) will
> work - we use desk microphones intended for computor use but you need to
> wire to a new plug and add a PTT.
>
> Steve G6ALU
>>

1720. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-24 19:47:21 UTC
From: K.Greenough
Topic: 1720 Message: 1720

Hello Steve,
You may remember my previous emails regarding extremely
quiet signals from my MKARS80 V1.3 , I checked and rechecked
many times all components and connections, especially the
transformers but all to no avail. I could receive SSB, quite nice sounding
audio but almost none of it. I had to place the speaker next to my ear to
hear anything at all. To be honest I was on the verge of throwing the set
in the bin. So I started to study the circuit and was amazed that R18 the
base biasing resistor for Q6, the audio preamp, was only 1K ohm. Q6
was turned on so hard it was near enough saturated, sure enough on the
voltage chart in the manual Q6 is shown as having 0.6v on the base and
0.6v on the collector. I tacked a 100K in series with R18 and switched on.
The audio nearly blew me across the room. The Rx is nice and lively now,
there's a contest on 80 at the moment and the set copes very well with all
the activity. What I don't understand is how others have got their MKARS80
to give any audio out. Anyway, that's the fix I found and now I'm happy with
the Rx, time to check the Tx hi.
73 Ken g8beq

[Non-text portions of this message have been removed]

1721. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-24 20:38:51 UTC
From: Steve Drury
Topic: 1720 Message: 1721

Ken,

You are quite correct, for a properly biased stage you don't have a 1k bias resistor, this was a design faux pas! This is essentially a waste of a transistor but removing it would have meant a new PCB design, the transistor only costs me 2 pence.

All working MKARS80s have this 1k resistor.. indeed if any one doesn't think they have enough audio they are welcome to change the value of resistor but only after the radio is working properly, believe me with a reasonable aerial you should have plenty of audio.

I'm sure your problem is elsewhere, I'm guessing that you won't get much power out in TX; if this is the case I urge you to send it to me rather than putting it in the bin.

Regards,
Steve G6ALU

----- Original Message -----
From: "K.Greenough" <g0wbm@...>
To: <mkars80@...>
Sent: Thursday, June 24, 2010 8:47 PM
Subject: [mkars80] Re: deaf Rx

> Hello Steve,
> You may remember my previous emails regarding extremely
> quiet signals from my MKARS80 V1.3 , I checked and rechecked
> many times all components and connections, especially the
> transformers but all to no avail. I could receive SSB, quite nice sounding
> audio but almost none of it. I had to place the speaker next to my ear to
> hear anything at all. To be honest I was on the verge of throwing the set
> in the bin. So I started to study the circuit and was amazed that R18 the
> base biasing resistor for Q6, the audio preamp, was only 1K ohm. Q6
> was turned on so hard it was near enough saturated, sure enough on the
> voltage chart in the manual Q6 is shown as having 0.6v on the base and
> 0.6v on the collector. I tacked a 100K in series with R18 and switched on.
> The audio nearly blew me across the room. The Rx is nice and lively now,
> there's a contest on 80 at the moment and the set copes very well with all
> the activity. What I don't understand is how others have got their
> MKARS80
> to give any audio out. Anyway, that's the fix I found and now I'm happy
> with
> the Rx, time to check the Tx hi.
> 73 Ken g8beq
>

> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1722. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-24 20:39:06 UTC
From: Peter Fraser
Topic: 1720 Message: 1722

Hi Ken

A most interesting observation that you have made.

Did you check the voltages of C, B and E of Q6? I also wonder if you have the correct value for R15 of 4k7?

I was trying to find a way to mute the audio amplifier when using a speaker mic and finished up using a relay, but perhaps saturating Q6 would have been a better way?

Good luck with the transmitter.

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

----- Original Message -----
From: K.Greenough
To: mkars80@...
Sent: Friday, June 25, 2010 5:47 AM
Subject: [mkars80] Re: deaf Rx

Hello Steve,
You may remember my previous emails regarding extremely
quiet signals from my MKARS80 V1.3 , I checked and rechecked
many times all components and connections, especially the
transformers but all to no avail. I could receive SSB, quite nice sounding
audio but almost none of it. I had to place the speaker next to my ear to
hear anything at all. To be honest I was on the verge of throwing the set
in the bin. So I started to study the circuit and was amazed that R18 the
base biasing resistor for Q6, the audio preamp, was only 1K ohm. Q6
was turned on so hard it was near enough saturated, sure enough on the
voltage chart in the manual Q6 is shown as having 0.6v on the base and
0.6v on the collector. I tacked a 100K in series with R18 and switched on.
The audio nearly blew me across the room. The Rx is nice and lively now,
there's a contest on 80 at the moment and the set copes very well with all
the activity. What I don't understand is how others have got their MKARS80
to give any audio out. Anyway, that's the fix I found and now I'm happy with
the Rx, time to check the Tx hi.
73 Ken g8beq

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1723. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-24 21:20:16 UTC
From: g3oth
Topic: 1720 Message: 1723

Hi Steve and Ken
Quickly looking at the circuit around Q6, I estimate it is biased at approx 2.5 mA when fed from the 1K0, although I would have thought that the collector volts could be close to the base say within (2.5 mA / 100) x 1K = 25 mV assuming a gain of 100, the transistor will not be saturated and therefore should still amplify. The gain of that stage could still therefore be as much as 4K7 / (25mv / 2.5 mA) = 470 if simple maths and physics holds true.
Steve do you remember the problem I had last year with the LM386 when the coupling electrolytic between Q6 and its input went leaky ?
I posted the symptoms and remedy if you look back at that msg.
I am just wondering if something similar might be masking Kens observations. Worth a look at Ken, because as Steve says all our MKARS80s use 1K0 and have heaps of AF gain.
73 de Charles G3OTH

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Ken,
>
> You are quite correct, for a properly biased stage you don't have a 1k bias
> resistor, this was a design faux pas! This is essentially a waste of a
> transistor but removing it would have meant a new PCB design, the transistor
> only costs me 2 pence.
>
> All working MKARS80s have this 1k resistor.. indeed if any one doesn't think
> they have enough audio they are welcome to change the value of resistor but
> only after the radio is working properly, believe me with a reasonable
> aerial you should have plenty of audio.
>
> I'm sure your problem is elsewhere, I'm guessing that you won't get much
> power out in TX; if this is the case I urge you to send it to me rather than
> putting it in the bin.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "K.Greenough" <g0wbm@...>
> To: <mkars80@...>
> Sent: Thursday, June 24, 2010 8:47 PM
> Subject: [mkars80] Re: deaf Rx
>
>
>
> > Hello Steve,
> > You may remember my previous emails regarding extremely
> > quiet signals from my MKARS80 V1.3 , I checked and rechecked
> > many times all components and connections, especially the

> > transformers but all to no avail. I could receive SSB, quite nice sounding
> > audio but almost none of it. I had to place the speaker next to my ear to
> > hear anything at all. To be honest I was on the verge of throwing the set
> > in the bin. So I started to study the circuit and was amazed that R18 the
> > base biasing resistor for Q6, the audio preamp, was only 1K ohm. Q6
> > was turned on so hard it was near enough saturated, sure enough on the
> > voltage chart in the manual Q6 is shown as having 0.6v on the base and
> > 0.6v on the collector. I tacked a 100K in series with R18 and switched on.
> > The audio nearly blew me across the room. The Rx is nice and lively now,
> > there's a contest on 80 at the moment and the set copes very well with all
> > the activity. What I don't understand is how others have got their
> > MKARS80
> > to give any audio out. Anyway, that's the fix I found and now I'm happy
> > with
> > the Rx, time to check the Tx hi.
> > 73 Ken g8beq
> >
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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1724. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-24 21:33:00 UTC
From: g3oth
Topic: 1720 Message: 1724

Should add that my calc was based on potential open loop gain, the feedback resistor would make a difference when closed of course and hence lower it somewhat depending on the drive impedance, but I think my argument still applies.
Charles

--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> Hi Steve and Ken
> Quickly looking at the circuit around Q6, I estimate it is biased at approx 2.5 mA when fed from the 1K0, although I would have thought that the collector volts could be close to the base say within (2.5 mA / 100) x 1K = 25 mV assuming a gain of 100, the transistor will not be saturated and therefore should still amplify. The gain of that stage could still therefore be as much as 4K7 / (25mv / 2.5 mA) = 470 if simple maths and physics holds true.
> Steve do you remember the problem I had last year with the LM386 when the coupling electrolytic between Q6 and its input went leaky ?
> I posted the symptoms and remedy if you look back at that msg.
> I am just wondering if something similar might be masking Kens observations. Worth a look at Ken, because as Steve says all our MKARS80s use 1K0 and have heaps of AF gain.
> 73 de Charles G3OTH
>
> --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> >
> > Ken,
> >
> > You are quite correct, for a properly biased stage you don't have a 1k bias
> > resistor, this was a design faux pas! This is essentially a waste of a
> > transistor but removing it would have meant a new PCB design, the transistor
> > only costs me 2 pence.
> >
> > All working MKARS80s have this 1k resistor.. indeed if any one doesn't think
> > they have enough audio they are welcome to change the value of resistor but
> > only after the radio is working properly, believe me with a reasonable
> > aerial you should have plenty of audio.
> >
> > I'm sure your problem is elsewhere, I'm guessing that you won't get much
> > power out in TX; if this is the case I urge you to send it to me rather than
> > putting it in the bin.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "K.Greenough" <g0wbm@>
> > To: <mkars80@...>
> > Sent: Thursday, June 24, 2010 8:47 PM

> > Subject: [mkars80] Re: deaf Rx
> >
> >
> > > Hello Steve,
> > > You may remember my previous emails regarding extremely
> > > quiet signals from my MKARS80 V1.3 , I checked and rechecked
> > > many times all components and connections, especially the
> > > transformers but all to no avail. I could receive SSB, quite nice sounding
> > > audio but almost none of it. I had to place the speaker next to my ear to
> > > hear anything at all. To be honest I was on the verge of throwing the set
> > > in the bin. So I started to study the circuit and was amazed that R18 the
> > > base biasing resistor for Q6, the audio preamp, was only 1K ohm. Q6
> > > was turned on so hard it was near enough saturated, sure enough on the
> > > voltage chart in the manual Q6 is shown as having 0.6v on the base and
> > > 0.6v on the collector. I tacked a 100K in series with R18 and switched on.
> > > The audio nearly blew me across the room. The Rx is nice and lively now,
> > > there's a contest on 80 at the moment and the set copes very well with all
> > > the activity. What I don't understand is how others have got their
> > > MKARS80
> > > to give any audio out. Anyway, that's the fix I found and now I'm happy
> > > with
> > > the Rx, time to check the Tx hi.
> > > 73 Ken g8beq
> > >
> > > [Non-text portions of this message have been removed]
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1725. Re: [mkars80] Re: cheap speaker-mics?

Yahoo group: mkars80
Date: 2010-06-24 21:50:26 UTC
From: G4DFV
Topic: 1713 Message: 1725

Maplin stock quite a reasonable speaker mic, with 30mm diameter 8 ohms speaker with an electret mic insert. Priced at £9.99. The shop code is QT21X.

http://www.maplin.co.uk/Module.aspx?ModuleNo=29693

Hope this helps.

Duncan G4DFV

[Non-text portions of this message have been removed]

1726. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-24 20:49:41 UTC
From: Steve Drury
Topic: 1720 Message: 1726

Yes, I didn't think of driving it even harder on.

Steve

----- Original Message -----
From: "Peter Fraser" <pfraser@...>
To: <mkars80@...>
Sent: Thursday, June 24, 2010 9:39 PM
Subject: Re: [mkars80] Re: deaf Rx

> Hi Ken
>
> A most interesting observation that you have made.
>
> Did you check the voltages of C, B and E of Q6? I also wonder if you have
> the correct value for R15 of 4k7?
>
> I was trying to find a way to mute the audio amplifier when using a
> speaker mic and finished up using a relay, but perhaps saturating Q6 would
> have been a better way?
>
> Good luck with the transmitter.
>
> 73
> Peter VK3ZPF
> http://vk3zpf.blogspot.com/
>
> ----- Original Message -----
> From: K.Greenough
> To: mkars80@...
> Sent: Friday, June 25, 2010 5:47 AM
> Subject: [mkars80] Re: deaf Rx
>
>
>
>
> Hello Steve,
> You may remember my previous emails regarding extremely
> quiet signals from my MKARS80 V1.3 , I checked and rechecked
> many times all components and connections, especially the
> transformers but all to no avail. I could receive SSB, quite nice
> sounding
> audio but almost none of it. I had to place the speaker next to my ear to
> hear anything at all. To be honest I was on the verge of throwing the set
> in the bin. So I started to study the circuit and was amazed that R18 the
> base biasing resistor for Q6, the audio preamp, was only 1K ohm. Q6
> was turned on so hard it was near enough saturated, sure enough on the

> voltage chart in the manual Q6 is shown as having 0.6v on the base and
> 0.6v on the collector. I tacked a 100K in series with R18 and switched
> on.
> The audio nearly blew me across the room. The Rx is nice and lively now,
> there's a contest on 80 at the moment and the set copes very well with
> all
> the activity. What I don't understand is how others have got their
> MKARS80
> to give any audio out. Anyway, that's the fix I found and now I'm happy
> with
> the Rx, time to check the Tx hi.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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1727. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-24 22:41:28 UTC
From: K.Greenough
Topic: 1720 Message: 1727

Hello All.
Well it's good to get so much feedback to my posting.
OK Steve on the fact that you feel I still have a problem
elsewhere, this obviously could be so but I can't find it hi.
A chart showing signal levels after each stage with an input
of, say, 2uV from a sig' genny would make fault tracing much
easier. I will try the Tx tomorrow and we'll see what happens then.
To you Peter, yes I checked the voltages on Q6, they were as
quoted in the manual. If you want to mute the Rx then Q3 already
is provided for this purpose. If you put a diode in series with R5
you can feed a voltage to Q3 base and it will mute the audio amp,
the diode stops your voltage from powering the Tx stages.
Charles, I'll certainly check the cap' [Q39] in the feed to Q6 but the
DC voltages measured on Q6 were as quoted in the manual.
If you were to short the collector of Q6 to its emitter [ground] then
12v across R14 and R15 would pass 12/4920..... 2.44 mA ,
With Q6 in circuit the current is 11.4 / 4920 ..... 2.3 mA so it's
obviously turned on fairly hard. It actually represents a resistance of
260 ohms as the lower part of a voltage divider with R28 [10K]
So it's a very effective attenuator.
As a further, interesting to me, point. My friend Keith, g8inc, ordered
two kits, one is mine and he's just built up his. He has exactly the same
performance as I have [he's going to change R18 tomorrow hi]. It seems
very unlikely that we would both make exactly the same mistake in the
construction of the set, we built them completely seperately.
Ah well, I'll check the Tx in the morning and take it from there.
Thanks for the comments, all very welcome.
73 Ken g8beq

[Non-text portions of this message have been removed]

1728. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 07:00:45 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 1720 Message: 1728

Ken

May I make a suggestion?

If you and you friend both have the identical problem on your respective MKARS80s then ship one of them back to Steve to let him run some tests.
It may be that there is a common problem with a component value or specification in the latest parts that Steve's shipping (only a thought)

Slim Haines G4IPZ

>

1729. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 09:20:46 UTC
From: K.Greenough
Topic: 1720 Message: 1729

Hello Slim,
OK on your suggestion but to be honest it goes against
the grain to admit defeat hi. That said the Rx is working
fine with R18 upped to 100K . So whatever the other fault
[if there is one] is it only reduces gain, not the performance.
I'm about to check the Tx now so I'll see what I find.
73 Ken g8beq

[Non-text portions of this message have been removed]

1730. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 12:44:39 UTC
From: g3oth
Topic: 1720 Message: 1730

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello All.
> Well it's good to get so much feedback to my posting.
> OK Steve on the fact that you feel I still have a problem
> elsewhere, this obviously could be so but I can't find it hi.
> A chart showing signal levels after each stage with an input
> of, say, 2uV from a sig' genny would make fault tracing much
> easier.

Yes I think that would be a good addition to the present excellent builders guide. Maybe it could be incorporated into the schematic showing either typical actual signal levels or as dB gain or loss progressively or at each stage as in the N7VE Schematic for the BITX20A

>I will try the Tx tomorrow and we'll see what happens then.
> To you Peter, yes I checked the voltages on Q6, they were as
> quoted in the manual. If you want to mute the Rx then Q3 already
> is provided for this purpose. If you put a diode in series with R5
> you can feed a voltage to Q3 base and it will mute the audio amp,
> the diode stops your voltage from powering the Tx stages.

Ken, I think Peter or someone else had some problems earlier regarding this muting feature and is aware of some of its limitations and use, however you do not need a diode as Q3 is switched on via R5 by the switch TX12v supply on the PCB already.

> Charles, I'll certainly check the cap' [Q39] in the feed to Q6 but the
> DC voltages measured on Q6 were as quoted in the manual.

Excessive cap current was a long shot, it certainly was the culprit for the LM386 not behaving as expected but it would have to be really bad I guess to influence and control Q6

> If you were to short the collector of Q6 to its emitter [ground] then
> 12v across R14 and R15 would pass 12/4920..... 2.44 mA ,
> With Q6 in circuit the current is 11.4 / 4920 ..... 2.3 mA so it's
> obviously turned on fairly hard.

I would rather not use those words as they imply the transistor is saturated, which even with 0.6 volts at the collector IMHO it is not.
To be saturated my understanding is that VCE would need to be lower than VBE, the fact that base current has to be provided via R18 from VCE ensures this situation can never exist.

> It actually represents a resistance of
> 260 ohms as the lower part of a voltage divider with R28 [10K]
> So it's a very effective attenuator.

If this refers to Q6 I am not quite sure what you are getting at here.
It seems to me that it is more appropriate to describing the functioning of the muting

transistor Q3

> As a further, interesting to me, point. My friend Keith, g8inc, ordered
> two kits, one is mine and he's just built up his. He has exactly the same
> performance as I have [he's going to change R18 tomorrow hi]. It seems
> very unlikely that we would both make exactly the same mistake in the
> construction of the set, we built them completely seperately.
> Ah well, I'll check the Tx in the morning and take it from there.
> Thanks for the comments, all very welcome.

Hope the TX tests are going ok for you today.
73 de Charles G3OTH

1731. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 12:42:30 UTC
From: K.Greenough
Topic: 1720 Message: 1731

Hello All [who're interested hi]. I've checked the Tx and I get
5 watts output on a whistle so that seems OK, I do have a
problem that is likely of my own making, the audio doesn't
mute fully on Tx, this may be because I've upped the gain
of Q6, it could be that turning Q3 on a bit harder will do the trick.
Of course if I could find the possible fault on the Rx I could dispense
with the extra gain however I can't find anything wrong with any other
stages. Steve mentioned that there should be plenty of audio with
a decent aerial. What is a decent aerial ? at the moment I'm using
about 20 metres of wire from my garage window up to a 8 metre
high pole at the bottom of the garden. This is roughly a 1/4 wave sloper
on 80m . Not the best but should produce reasonable reception.
This wire fed into commercial sets gives good results. I can now detect
band noise when I connect the aerial which I could not do before I changed
R18. The noise levels here are fairly high so they should be noticable hi.
Carrier suppression is good, I can just detect the carrier using a FT817
close to the set, and it's not boxed yet so it's good. That said R59 and
C103 don't seem to have much effect but as the balance seems good
I'm not too concerned.
73 Ken g8beq

[Non-text portions of this message have been removed]

1732. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 13:11:50 UTC
From: g3oth
Topic: 1720 Message: 1732

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello All [who're interested hi]. I've checked the Tx and I get
> 5 watts output on a whistle so that seems OK, I do have a
> problem that is likely of my own making, the audio doesn't
> mute fully on Tx, this may be because I've upped the gain
> of Q6, it could be that turning Q3 on a bit harder will do the trick.

It is normal I think to detect a little bit of "side tone" on TX for reasons I stated earlier. In my case it is not a problem and is barely detectable when using Steves recommended R values.

> Of course if I could find the possible fault on the Rx I could dispense
> with the extra gain however I can't find anything wrong with any other
> stages.

I wish we could get to the bottom of this problem.

> Steve mentioned that there should be plenty of audio with
> a decent aerial. What is a decent aerial ? at the moment I'm using
> about 20 metres of wire from my garage window up to a 8 metre
> high pole at the bottom of the garden. This is roughly a 1/4 wave sloper
> on 80m . Not the best but should produce reasonable reception.

That antenna is more than good enough for RXing on the MKARS80

> This wire fed into commercial sets gives good results.

The MKARS80 should perform equally as well regarding sensitivity.

>I can now detect
> band noise when I connect the aerial which I could not do before I changed
> R18. The noise levels here are fairly high so they should be noticable hi.

The MKARS80 is usually very quiet until you attach a few feet of wire to the antenna socket, 6 feet is about all you should need to bring in some noise.

> Carrier suppression is good, I can just detect the carrier using a FT817
> close to the set, and it's not boxed yet so it's good. That said R59 and
> C103 don't seem to have much effect but as the balance seems good
> I'm not too concerned.

Glad to hear things are going well for you on the TX.

73 de Charles G3OTH

1733. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 13:11:35 UTC
From: K.Greenough
Topic: 1720 Message: 1733

Hello Charles,
Thanks for the comments, my comment about a diode and Q3
were addressed to Peter who said he was using a relay to mute
the Rx when using a speaker / mic. I was thinking that he wanted
to mute the Rx without the TX being operated [I read it wrong hi]
and of course if you just put a voltage to Q3 whilst on RX it could
feed back into the Tx circuitry. All a complete misunderstanding on
my part. However now that I've tested the Tx, which is working fine,
I'm finding that the mute isn't good enough, I assumed it was because
I'd increased the gain of Q6 considerably but from your comments it
looks as this is a problem area. I'm thinking of reducing R5 from 10k
down to 4k7 . This should turn Q3 harder on [sorry, you don't like that
expression hi] and hopefully mute better. There will still be just over
2mA of base current on Q3 so it should cope.
73 Ken g8beq

[Non-text portions of this message have been removed]

1734. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 13:41:58 UTC
From: Steve Drury
Topic: 1720 Message: 1734

Ken,

I'm glad the TX is OK, that does suggest both the mixers are also OK. If you have a scope follow the set-up information for the modulator ballance - I place it into TX with no audio and 'scope the FET drain then adjust R59 / C103 for minimum carrier.

Does the TX LED flicker off if you talk normally about 6" from the mike?

Probably of more help would be the required injection level at certain points for an output of say 100mV P-P at the speaker terminals, do you have a signal generator?

Steve G6ALU

----- Original Message -----
From: "K.Greenough" <g0wbm@...>
To: <mkars80@...>
Sent: Friday, June 25, 2010 1:42 PM
Subject: Re: [mkars80] Re: deaf Rx

> Hello All [who're interested hi]. I've checked the Tx and I get
> 5 watts output on a whistle so that seems OK, I do have a
> problem that is likely of my own making, the audio doesn't
> mute fully on Tx, this may be because I've upped the gain
> of Q6, it could be that turning Q3 on a bit harder will do the trick.
> Of course if I could find the possible fault on the Rx I could dispense
> with the extra gain however I can't find anything wrong with any other
> stages. Steve mentioned that there should be plenty of audio with
> a decent aerial. What is a decent aerial ? at the moment I'm using
> about 20 metres of wire from my garage window up to a 8 metre
> high pole at the bottom of the garden. This is roughly a 1/4 wave sloper
> on 80m . Not the best but should produce reasonable reception.
> This wire fed into commercial sets gives good results. I can now detect
> band noise when I connect the aerial which I could not do before I changed
> R18. The noise levels here are fairly high so they should be noticable hi.
> Carrier suppression is good, I can just detect the carrier using a FT817
> close to the set, and it's not boxed yet so it's good. That said R59 and
> C103 don't seem to have much effect but as the balance seems good
> I'm not too concerned.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
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1735. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 15:16:22 UTC
From: K.Greenough
Topic: 1720 Message: 1735

Hello Steve,
Yes, I have a signal generator so if you could provide the
levels needed at various points through the circuit to give
a known output [I can measure audio output power down
to milliwatts], I could find the stage at fault. Yes the red
LED flashes at ordinary voice levels. I tried reducing R5
to get better muting without any success and then I wondered
why the LM386 is powered during Tx. If it's supply was switched
by RLY1 there would be perfect muting, is there a reason why
it's left powered?
I'm not criticising the circuitry, far from it, I think the kit is very
good but we all have our preferred means of doing things.
In trying to find where I'm losing gain on Rx [before changing R18]
I note that C21 and R9 on the mic amp are across the detector
output on Rx, 1uF and 1k must shunt a fair amount of audio,
especially higher frequencies? rather like a severe tone control.
Both the RF amp Q19 and the 1st IF amp Q15 have 1K resistors
as part of the bias circuitry, this seems a rather low value to be
in parallel with the inputs? I would appreciate your comments on
these ramblings hi.
73 Ken g8beq

[Non-text portions of this message have been removed]

1736. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 17:58:08 UTC
From: g3oth
Topic: 1720 Message: 1736

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello Charles,
> Thanks for the comments, my comment about a diode and Q3
> were addressed to Peter who said he was using a relay to mute
> the Rx when using a speaker / mic. I was thinking that he wanted
> to mute the Rx without the TX being operated [I read it wrong hi]
> and of course if you just put a voltage to Q3 whilst on RX it could
> feed back into the Tx circuitry. All a complete misunderstanding on
> my part. However now that I've tested the Tx, which is working fine,
> I'm finding that the mute isn't good enough, I assumed it was because
> I'd increased the gain of Q6 considerably but from your comments it
> looks as this is a problem area. I'm thinking of reducing R5 from 10k
> down to 4k7 . This should turn Q3 harder on [sorry, you don't like that
> expression hi]

I have no problem with using that expression here Ken, as here Q3 is required to be and is already likely to be fully saturated, but no harm will be done by increasing IB, however I doubt if it will improve the level of muting by very much as the stage is already in saturation.

73 de Charles G3OTH

and hopefully mute better. There will still be just over
> 2mA of base current on Q3 so it should cope.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

1737. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 18:07:57 UTC
From: g3oth
Topic: 1720 Message: 1737

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello Steve,
> Yes, I have a signal generator so if you could provide the
> levels needed at various points through the circuit to give
> a known output [I can measure audio output power down
> to milliwatts], I could find the stage at fault. Yes the red
> LED flashes at ordinary voice levels. I tried reducing R5
> to get better muting without any success and then I wondered
> why the LM386 is powered during Tx. If it's supply was switched
> by RLY1 there would be perfect muting, is there a reason why
> it's left powered?

Steve is the best person to answer this, but it could be tied up with the desirability to avoid audible switching clicks & plops etc whilst the LM386 is settling down into its steady state.

> I'm not criticising the circuitry, far from it, I think the kit is very
> good but we all have our preferred means of doing things.
> In trying to find where I'm losing gain on Rx [before changing R18]
> I note that C21 and R9 on the mic amp are across the detector
> output on Rx, 1uF and 1k must shunt a fair amount of audio,
> especially higher frequencies? rather like a severe tone control.
> Both the RF amp Q19 and the 1st IF amp Q15 have 1K resistors
> as part of the bias circuitry, this seems a rather low value to be
> in parallel with the inputs? I would appreciate your comments on
> these ramblings hi.

Ken if you havn't seen or read Farhans original article on the BITX20 on which Steve based the MKARS80 I would recommend visiting this link for answers to some of your questions.

http://www.phonestack.com/farhan/bitx.html

Trust this of help.

73 de Charles G3OTH

1738. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 17:50:05 UTC
From: Steve Drury
Topic: 1720 Message: 1738

Hi Ken,
My answers:

"I wondered
why the LM386 is powered during Tx. If it's supply was switched
by RLY1 there would be perfect muting, is there a reason why
it's left powered?"

This is the way the BITX20 works but you get a loud "POP" through the speaker on TX-RX transitions.

"I note that C21 and R9 on the mic amp are across the detector
output on Rx, 1uF and 1k must shunt a fair amount of audio,
especially higher frequencies?"

The detector is low impedance so there won't be much loss.

"Both the RF amp Q19 and the 1st IF amp Q15 have 1K resistors
as part of the bias circuitry, this seems a rather low value to be in
parallel with the inputs?"

The input impedance of these stages is again low (ideally 50R) so the low value of bias resistors doesn't cause much attenuation.

Best to get this fault sorted before you make any modifications to the radio.... they do work well as standard! I'm busy over the next couple of days so won't be able to get you the signal generator settings for a while - I suggest you re-check voltages on transistors especially Q19, remember its an MPSH10 with a different pin-out to most.

If you tune to a strong signal you should be able to follow the waveforms through on the scope, parts that must be OK (as the TX is working) are both mixers and the crystal filter. We've had one case of a broken RF gain control - make sure its not O/C, Charles had a leaky C35.

One problem I've seen a few times is broken print on component pads - when trimming the leads its quite easy to stress the pad and cause a very small fracture to the adjoining track. The only real way to find these is by scoping a signal through, typical places for this to happen are on decoupling capacitors, C87 for instance.

In the group file section there is a plot of the bottom copper layer if you need to do a comparison.

All the best,

Steve

----- Original Message -----
From: "K.Greenough" <g0wbm@...>
To: <mkars80@...>
Sent: Friday, June 25, 2010 4:16 PM
Subject: Re: [mkars80] Re: deaf Rx

> Hello Steve,
> Yes, I have a signal generator so if you could provide the
> levels needed at various points through the circuit to give
> a known output [I can measure audio output power down
> to milliwatts], I could find the stage at fault. Yes the red
> LED flashes at ordinary voice levels. I tried reducing R5
> to get better muting without any success and then I wondered
> why the LM386 is powered during Tx. If it's supply was switched
> by RLY1 there would be perfect muting, is there a reason why
> it's left powered?
> I'm not criticising the circuitry, far from it, I think the kit is very
> good but we all have our preferred means of doing things.
> In trying to find where I'm losing gain on Rx [before changing R18]
> I note that C21 and R9 on the mic amp are across the detector
> output on Rx, 1uF and 1k must shunt a fair amount of audio,
> especially higher frequencies? rather like a severe tone control.
> Both the RF amp Q19 and the 1st IF amp Q15 have 1K resistors
> as part of the bias circuitry, this seems a rather low value to be
> in parallel with the inputs? I would appreciate your comments on
> these ramblings hi.
> 73 Ken g8beq

1739. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-25 22:50:40 UTC
From: K.Greenough
Topic: 1720 Message: 1739

Hello All,
Well I do feel a fool, I found the problem with my set,
it turned out to be poor soldering as the manual suggests.
I was checking the BFO frequency when I noticed that as
I put my counter probe onto the 10 MHz test point the
received signal went louder, I couldn't see why this should
be [and still not sure why] but it made me check the BFO
circuitry. When I checked the voltages on the buffer transistor
the set went extremely loud. There was obviously a cold solder
joint. I resoldered the pads and the gain of the Rx was way over
the top. So I changed R18 back to 1k [with a very red face] and,
hey presto, one Rx working as I'm sure it should. I do apologise
for leading everyone around the garden path. I've just got to check
the Tx again tomorrow to see if there is less feedback now that the
AF gain is back to it's design value. It's a surprise that the Tx gave
5 watts with hardly any BFO injection, that lulled me into thinking all
was well around the balanced mixer. Oh well, all's well that ends well.
Thanks for all the interest and advice given, much appreciated and
you were all correct about not needing the mod's I did [and now undone].
73 Ken g8beq

[Non-text portions of this message have been removed]

1740. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-26 07:26:27 UTC
From: Steve Drury
Topic: 1720 Message: 1740

I'm glad to here its working OK Ken... there is pleanty of gain on TX (probably too much) which can sometimes mask other problems, thats why I asked if your LED flickered off when talking normally.

All the best,

Steve G6ALU

----- Original Message -----
From: "K.Greenough" <g0wbm@...>
To: <mkars80@...>
Sent: Friday, June 25, 2010 11:50 PM
Subject: Re: [mkars80] Re: deaf Rx

> Hello All,
> Well I do feel a fool, I found the problem with my set,
> it turned out to be poor soldering as the manual suggests.
> I was checking the BFO frequency when I noticed that as
> I put my counter probe onto the 10 MHz test point the
> received signal went louder, I couldn't see why this should
> be [and still not sure why] but it made me check the BFO
> circuitry. When I checked the voltages on the buffer transistor
> the set went extremely loud. There was obviously a cold solder
> joint. I resoldered the pads and the gain of the Rx was way over
> the top. So I changed R18 back to 1k [with a very red face] and,
> hey presto, one Rx working as I'm sure it should. I do apologise
> for leading everyone around the garden path. I've just got to check
> the Tx again tomorrow to see if there is less feedback now that the
> AF gain is back to it's design value. It's a surprise that the Tx gave
> 5 watts with hardly any BFO injection, that lulled me into thinking all
> was well around the balanced mixer. Oh well, all's well that ends well.
> Thanks for all the interest and advice given, much appreciated and
> you were all correct about not needing the mod's I did [and now undone].
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

1741. Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-26 09:16:35 UTC
From: g3oth
Topic: 1720 Message: 1741

Hi Ken
I read your email and was very pleased to learn that you found a dry soldered joint was responsible for the lack of gain in your MKARS80.
Now that all is well I am sure you will be very pleased with it.
I and many others consider it to be the best value for money kit produced for a very long time having a performance that far exceeds most people's expectations who have not operated one before.
Have fun, and someday I look forward to working you for a 2 way QSO using our MKARS80s.
73 de Charles G3OTH

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
> I found the problem with my set,
> it turned out to be poor soldering as the manual suggests.

1742. mod for dynamic mic?

Yahoo group: mkars80
Date: 2010-06-26 13:07:32 UTC
From: zaktherabbit
Topic: 1742 Message: 1742

ok, i give up, ive searched posts, and files, but cant find the mod for a dynamic mic. (incidentally the search function wouldnt work for me, i had to read the post headers)

Im sure there was a post mentioning modding a dynamic mic using a resistor and/or cap, as opposed to the mod in the construction manual to remove the bias resistor?

I would rather mod the mic, since i will get a nice more modern looking and electret based mic at a later date

can anyone point me in the right direction?

Cheers

Martin G7MRV

1743. Re: cheap speaker-mics?

Yahoo group: mkars80
Date: 2010-06-26 12:41:47 UTC
From: zaktherabbit
Topic: 1713 Message: 1743

Thanks for the replies chaps,

thanks especially to the chap who pointed out the feedback problems of a speaker mic, i do apologise but i inadvertently deleted the email so i cant remember who it was, but for clarification, i was looking at that sort of speaker-mic fromt he size point of view, it is my intention to disable the speaker

anyway, a friend has just chucked me a new old stock CB fistmic, nice and tidy, but of course dynamic. I believe there is a mod listed somewhere on here to use a dynamic mic so will dig that out

My transceiver is now at first test stage. Fingers crossed!

Martin G7MRV

--- In mkars80@..., "G4DFV" <g4dfv.electron1@...> wrote:
>
> Maplin stock quite a reasonable speaker mic, with 30mm diameter 8 ohms speaker with an electret mic insert. Priced at £9.99. The shop code is QT21X.
>
> http://www.maplin.co.uk/Module.aspx?ModuleNo=29693
>
> Hope this helps.
>
> Duncan G4DFV
>
>
> [Non-text portions of this message have been removed]
>

1744. Re: [mkars80] mod for dynamic mic?

Yahoo group: mkars80
Date: 2010-06-26 19:54:11 UTC
From: K.Greenough
Topic: 1742 Message: 1744

Hello Martin,
If you don't want to remove R17 to use a dynamic mic you
could just lift one end off the board and put it back when you
get an electret mic. If you really want to mod the mic you just
need an electrolytic cap, say 1 or 2 uF in series with the mic
connection. positive end to the radio. You could get noise
introduced though if the electrolytic has significant leakage.
73 Ken g8beq

[Non-text portions of this message have been removed]

1745. Sorry for the off topic BITX20A

Yahoo group: mkars80
Date: 2010-06-26 17:21:07 UTC
From: v321uk
Topic: 1745 Message: 1745

The mkars80 is great but if you would like to try 20m SSB I am selling my BITX20A 10 Watt SSB transceiver.

The kit is finished and working. This is just the completed BITX20A PCB so you will probably need to find your own case or chassis to mount it in. It is working fine on TX and RX.

Any questions please ask.

£50 Plus postage.

John G3UGY

1746. Re: mod for dynamic mic?

Yahoo group: mkars80
Date: 2010-06-27 02:15:45 UTC
From: zaktherabbit
Topic: 1742 Message: 1746

Thanks for the replies chaps, that was exactly the info i was looking for,

Ken - thanks for the info regarding induced noise. I wasnt going to mod the radio, but i do have some very small PCB mount slide switches (like singles of DIP switches) so i will probably lift the resistor and install one of these switches in series, so then i can quickly put it back to bias when needed

cheers

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello Martin,
> If you don't want to remove R17 to use a dynamic mic you
> could just lift one end off the board and put it back when you
> get an electret mic. If you really want to mod the mic you just
> need an electrolytic cap, say 1 or 2 uF in series with the mic
> connection. positive end to the radio. You could get noise
> introduced though if the electrolytic has significant leakage.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

1747. Re: [mkars80] Re: deaf Rx

Yahoo group: mkars80
Date: 2010-06-26 22:32:56 UTC
From: K.Greenough
Topic: 1720 Message: 1747

Hello Charles,
Thanks for your comments, yes I agree the kit is
excellent value for money and is a high standard.
Even when I was having problems the quality of
the kit was evident and the problem turned out to
be of my own making. I look forward to meeting
you on 80m some time. I've got to get aerials
sorted out first, I did have an end fed [against ground]
inverted v about 120ft long and 40 ft high in the centre
but my wife had the tree cut down that was the support
at one end so I've got to come up with something different hi.
73 Ken g8beq

[Non-text portions of this message have been removed]

1748. Re: Sorry for the off topic BITX20A

Yahoo group: mkars80
Date: 2010-06-27 09:29:58 UTC
From: trygvesjothun
Topic: 1745 Message: 1748

Hi, I'd like to buy your BITX20A. I am based in Ireland but I have friends in the UK to whom you could mail it. Please let me know. Cheers, Tryg

1749. Speaker relay modification

Yahoo group: mkars80
Date: 2010-06-27 10:05:16 UTC
From: Peter Fraser
Topic: 1749 Message: 1749

Hi all

I have posted details of my modification to remove the audio feedback that I was getting when using a speaker/microphone to my blog at http://vk3zpf.blogspot.com/

I found this modification was required as the small amount of audio that was getting through was enough to feedback but only when using a speaker/microphone.

When using separate microphone and speaker the modification is not needed as the muting of the receiver is enough.

73

Peter VK3ZPF
http://vk3zpf.blogspot.com/

[Non-text portions of this message have been removed]

1750. Quick tip

Yahoo group: mkars80
Date: 2010-06-30 14:46:06 UTC
From: zaktherabbit
Topic: 1750 Message: 1750

Probably been said before, but if your wanting to put an insulator between the LCD module and the main board, plastic of just the right thickness and rigidity is readily available in the form of flora butter tubs! A 4cm x 8cm rectangle cut from the side, away from the corners is what ive used, held to the LCD module by a few squares of PVC tape

Oh, and if you use a salvaged part from your junk box, test it first! I had a lovelly little rocker on/off switch. My MKARS wouldnt power up, despite the voltages testing find before i fitted the switch and speaker! The switch contacts were duff. Im really annoyed now 'cos i havent any more little rockers!

Martin G7MRV

1751. 2 questions - speaker choice and VFO coverage adjustments

Yahoo group: mkars80
Date: 2010-07-01 10:18:45 UTC
From: zaktherabbit
Topic: 1751 Message: 1751

Hi Chaps,

very pleased to report that my MKARS80 is sat on the shack desk, gently hissing away. The power switch is now a cheapo toggle, but thats temporary!

Im rigged to a 10w dummy load as i have no HF antenna up at present, but will go to the rx longwire shortly to have a listen, once ive netted the BFO on the 'counter

I have two questions -

1. Ive adjusted the VFO coverage using C38 and the trimmers on the polyvaricon, and i get 3.450 - 3.859 (with the fine control at extreme each side). These seem a bit over the top, giving a fair amount of the range where its not useful. Has anyone made any mods that reduce the overall coverage down a little, say to 3.49 - 3.81 ? Shouldnt be much more that adding a little extra parallel capacitance.

2. What have people chose for the internal loudspeaker, if used, and how positioned? (assuming standard case). Im testing with a 2.5inch speaker, which i think would be too large to keep the magnet away from the VFO. I have a 1.5inch ultra-thin membrane loudspeaker (3mm thick!) which im thinking of using.

I'd love to hear peoples opinions on these two questions

Cheers

Martin

1752. 2 questions - speaker choice and VFO coverage adjustments

Yahoo group: mkars80
Date: 2010-07-01 10:40:57 UTC
From: zaktherabbit
Topic: 1751 Message: 1752

Hi Chaps,

very pleased to report that my MKARS80 is sat on the shack desk, gently hissing away. The power switch is now a cheapo toggle, but thats temporary!

Im rigged to a 10w dummy load as i have no HF antenna up at present, but will go to the rx longwire shortly to have a listen, once ive netted the BFO on the 'counter

I have two questions -

1. Ive adjusted the VFO coverage using C38 and the trimmers on the polyvaricon, and i get 3.450 - 3.859 (with the fine control at extreme each side). These seem a bit over the top, giving a fair amount of the range where its not useful. Has anyone made any mods that reduce the overall coverage down a little, say to 3.49 - 3.81 ? Shouldnt be much more that adding a little extra parallel capacitance.

2. What have people chose for the internal loudspeaker, if used, and how positioned? (assuming standard case). Im testing with a 2.5inch speaker, which i think would be too large to keep the magnet away from the VFO. I have a 1.5inch ultra-thin membrane loudspeaker (3mm thick!) which im thinking of using.

I'd love to hear peoples opinions on these two questions

Cheers

Martin

1753. Replacing tuning cap

Yahoo group: mkars80
Date: 2010-07-02 06:52:53 UTC
From: Anil
Topic: 1753 Message: 1753

Friends,

I am considering replacing the polyvaricon with a decent air spaced variable. Any pointers as to what value I should be looking at. Alternatively, any ideas for a varicap solution instead?

73s de
Anil (sm0mfc)

1754. Re: [mkars80] Replacing tuning cap

Yahoo group: mkars80
Date: 2010-07-02 12:07:36 UTC
From: John YAHOO
Topic: 1753 Message: 1754

Varicap tuning mod is here http://www.golddredgervideo.com/kc0wox/modifications.htm

John G3UGY

> I am considering replacing the polyvaricon with a decent air spaced variable. Any pointers as to what value I should be looking at. Alternatively, any ideas for a varicap solution instead?
>
> 73s de
> Anil (sm0mfc)

[Non-text portions of this message have been removed]

1755. Re: Replacing tuning cap

Yahoo group: mkars80
Date: 2010-07-02 20:38:19 UTC
From: Anil
Topic: 1753 Message: 1755

Much obliged, thanks!

--- In mkars80@..., "John YAHOO" <v321uk@...> wrote:
>
> Varicap tuning mod is here http://www.golddredgervideo.com/kc0wox/modifications.htm
>
> John G3UGY
>
>
>
> > I am considering replacing the polyvaricon with a decent air spaced variable. Any pointers as to what value I should be looking at. Alternatively, any ideas for a varicap solution instead?
> >
> > 73s de
> > Anil (sm0mfc)
>
>
> [Non-text portions of this message have been removed]
>

1756. Re: [mkars80] 2 questions - speaker choice and VFO coverage adjustments

Yahoo group: mkars80
Date: 2010-07-04 09:44:41 UTC
From: Clive Reynolds
Topic: 1751 Message: 1756

Hi Martin

I reduced the tuning range by fitting a silver mica 47pf capacitor across the tuning cap. Now get 3.58 - 3.85MHz; I didn't bother with coverage of the CW end of the band but left a bit just above the top end of the European allocation to listen for region 1 stations.

I don't think you'll have to worry about the field from the speaker as most of the small speakers are well shielded.

73 Clive G3GJA

----- Original Message -----
From: zaktherabbit
To: mkars80@...
Sent: Thursday, July 01, 2010 11:40 AM
Subject: [mkars80] 2 questions - speaker choice and VFO coverage adjustments

Hi Chaps,

very pleased to report that my MKARS80 is sat on the shack desk, gently hissing away. The power switch is now a cheapo toggle, but thats temporary!

Im rigged to a 10w dummy load as i have no HF antenna up at present, but will go to the rx longwire shortly to have a listen, once ive netted the BFO on the 'counter

I have two questions -

1. Ive adjusted the VFO coverage using C38 and the trimmers on the polyvaricon, and i get 3.450 - 3.859 (with the fine control at extreme each side). These seem a bit over the top, giving a fair amount of the range where its not useful. Has anyone made any mods that reduce the overall coverage down a little, say to 3.49 - 3.81 ? Shouldnt be much more that adding a little extra parallel capacitance.

2. What have people chose for the internal loudspeaker, if used, and how positioned? (assuming standard case). Im testing with a 2.5inch speaker, which i think would be too large to keep the magnet away from the VFO. I have a 1.5inch ultra-thin membrane loudspeaker (3mm thick!) which im thinking of using.

I'd love to hear peoples opinions on these two questions

Cheers

Martin

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[Non-text portions of this message have been removed]

1757. Problem with audio volume and power supply question.

Yahoo group: mkars80
Date: 2010-07-04 18:45:09 UTC
From: Richard Forss
Topic: 1757 Message: 1757

Hi,

Finished construction and managed to pick up a contact on it. It was very faint, but clear enough to prove the receiver was working. However, I'm having an issue with audio volume. When first powered up, I get a loud whistle at either end of volume range. Also no volume change over the range except for the last few millimetres of movement.

I am concerned that the power supply I'm using is incorrect. I'm using a mains power supply (from an old Netgear router) that is rated at 12V 1.2A. However, On the MKARS80 display, it is showing 14.3V. Is this any concern, or should I get a properly regulated 12V power supply? I just want to eliminate the power supply as a possible cause of my audio problem.

I've done voltage checks (against ground) on the pins of IC1 and get the following:

1: 1.36V
2: 0
3: 0.0091V
4: 0
5: 7.28V
6: 14.14V
7: 7.18V
8: 1.35V

These seem within range apart from pin 6 which seems a little higher than the 13.8 specified.

Hope someone can point me in the direction of a few tests that should point out the fault with my construction. I'm currently checking every soldered joint for short circuits etc.

Many thanks,

Richard M6IXI

1758. Re: [mkars80] Problem with audio volume and power supply question.

Yahoo group: mkars80
Date: 2010-07-04 19:20:04 UTC
From: Steve Drury
Topic: 1757 Message: 1758

Richard,
I'm not sure why the volume isn't changing whilst adjusting the RF gain - can you check it's a 4k7 potentiometer first by reading its value printed in the plastic and then measuring it with a meter.

The IC voltages are all probably reasonable - I would find another 12V source to eliminate the Netgear power supply as its probably a switching converter which may generate noise, 1.2A will be marginal when you are transmitting and it may not like the presence of RF power.

By far the most common problem is with soldering the transformers; the enamel needs quite a bit of heat to "burn" off so its wise to go over these with a good hot iron.

Let us know how you get on.

Steve G6ALU

----- Original Message -----
From: "Richard Forss" <richard@...>
To: <mkars80@...>
Sent: Sunday, July 04, 2010 7:45 PM
Subject: [mkars80] Problem with audio volume and power supply question.

> Hi,
>
> Finished construction and managed to pick up a contact on it. It was very
> faint, but clear enough to prove the receiver was working. However, I'm
> having an issue with audio volume. When first powered up, I get a loud
> whistle at either end of volume range. Also no volume change over the
> range except for the last few millimetres of movement.
>
> I am concerned that the power supply I'm using is incorrect. I'm using a
> mains power supply (from an old Netgear router) that is rated at 12V 1.2A.
> However, On the MKARS80 display, it is showing 14.3V. Is this any concern,
> or should I get a properly regulated 12V power supply? I just want to
> eliminate the power supply as a possible cause of my audio problem.
>
> I've done voltage checks (against ground) on the pins of IC1 and get the
> following:
>
> 1: 1.36V
> 2: 0
> 3: 0.0091V
> 4: 0
> 5: 7.28V

> 6: 14.14V
> 7: 7.18V
> 8: 1.35V
>
> These seem within range apart from pin 6 which seems a little higher than
> the 13.8 specified.
>
> Hope someone can point me in the direction of a few tests that should
> point out the fault with my construction. I'm currently checking every
> soldered joint for short circuits etc.
>
> Many thanks,
>
>
> Richard M6IXI
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1759. Microphonic

Yahoo group: mkars80
Date: 2010-07-05 10:51:16 UTC
From: Andrew Lenton
Topic: 1757 Message: 1759

Hi Steve,

How microphonic would you expect the MKARS80? A firm tap with a fingernail does cause to warble and lose lock. Has anyone tried rubber mounting the board in the case?

Any thoughts on a 20or 160 Meter version?

BR

Andrew G8 UUG

PS I have had excellent audio reports from all over the Europe using this radio and one from the USA

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Steve Drury
Sent: 04 July 2010 20:20
To: mkars80@...
Subject: Re: [mkars80] Problem with audio volume and power supply question.

Richard,
I'm not sure why the volume isn't changing whilst adjusting the RF gain - can you check it's a 4k7 potentiometer first by reading its value printed in

the plastic and then measuring it with a meter.

The IC voltages are all probably reasonable - I would find another 12V source to eliminate the Netgear power supply as its probably a switching converter which may generate noise, 1.2A will be marginal when you are transmitting and it may not like the presence of RF power.

By far the most common problem is with soldering the transformers; the enamel needs quite a bit of heat to "burn" off so its wise to go over these with a good hot iron.

Let us know how you get on.

Steve G6ALU

----- Original Message -----
From: "Richard Forss" <richard@... <mailto:richard%40forss.org> >
To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk> >
Sent: Sunday, July 04, 2010 7:45 PM
Subject: [mkars80] Problem with audio volume and power supply question.

> Hi,
>

> Finished construction and managed to pick up a contact on it. It was very
> faint, but clear enough to prove the receiver was working. However, I'm
> having an issue with audio volume. When first powered up, I get a loud
> whistle at either end of volume range. Also no volume change over the
> range except for the last few millimetres of movement.
>
> I am concerned that the power supply I'm using is incorrect. I'm using a
> mains power supply (from an old Netgear router) that is rated at 12V 1.2A.

> However, On the MKARS80 display, it is showing 14.3V. Is this any concern,

> or should I get a properly regulated 12V power supply? I just want to
> eliminate the power supply as a possible cause of my audio problem.
>
> I've done voltage checks (against ground) on the pins of IC1 and get the
> following:
>
> 1: 1.36V
> 2: 0
> 3: 0.0091V
> 4: 0
> 5: 7.28V
> 6: 14.14V
> 7: 7.18V
> 8: 1.35V
>
> These seem within range apart from pin 6 which seems a little higher than
> the 13.8 specified.
>
> Hope someone can point me in the direction of a few tests that should
> point out the fault with my construction. I'm currently checking every
> soldered joint for short circuits etc.
>
> Many thanks,
>
>
> Richard M6IXI
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1760. Re: [mkars80] Microphonic

Yahoo group: mkars80
Date: 2010-07-05 15:23:27 UTC
From: K.Greenough
Topic: 1757 Message: 1760

Hello Andrew,
I mounted my VFO coil on a small rubber pad and
put a dab of Evostick on the bottom of it and on all
the coils. The radio is not very microphonic.
I also used as short as possible lead lengths on
coils and transistors. What I have is a couple of
sproggies on Rx, quite low level so they don't bother me
but I'm a bit puzzled where they are being generated.
They vary in strength with the RF gain pot but not when I
short the aerial socket, got me puzzled hi. Possibly
harmonics of the VFO beating with the BFO or it's harmonics.
73 Ken g8beq

[Non-text portions of this message have been removed]

1761. Re: 2 questions - speaker choice and VFO coverage adjustments

Yahoo group: mkars80
Date: 2010-07-05 19:11:04 UTC
From: zaktherabbit
Topic: 1751 Message: 1761

Thanks Clive,

is that range with the polyvaricons trimmers fully meshed? did you measure the range with them un-meshed at all?

I'd like to keep the CW section, so will adjust mine to cover that. The only major mod i'd like is probably not possible with the PIC used, which would be to have USB available!

I used an ultra-slim membrane speaker in the end, fitted to the side of the case.

Not tested Tx on air yet, need to get an 80m antenna up, but having a new baby means not much time for that

Martin

--- In mkars80@yahoogroups.co.uk, "Clive Reynolds" <clive@...> wrote:
>
> Hi Martin
>
> I reduced the tuning range by fitting a silver mica 47pf capacitor across the tuning cap. Now get 3.58 - 3.85MHz; I didn't bother with coverage of the CW end of the band but left a bit just above the top end of the European allocation to listen for region 1 stations.
>
> I don't think you'll have to worry about the field from the speaker as most of the small speakers are well shielded.
>
> 73 Clive G3GJA
>
>
>
> ----- Original Message -----
> From: zaktherabbit
> To: mkars80@...
> Sent: Thursday, July 01, 2010 11:40 AM
> Subject: [mkars80] 2 questions - speaker choice and VFO coverage adjustments
>
>
>
> Hi Chaps,
>
> very pleased to report that my MKARS80 is sat on the shack desk, gently hissing away. The power switch is now a cheapo toggle, but thats temporary!
>
> Im rigged to a 10w dummy load as i have no HF antenna up at present, but will go to the rx longwire shortly to have a listen, once ive netted the BFO on the 'counter
>

> I have two questions -
>
> 1. Ive adjusted the VFO coverage using C38 and the trimmers on the polyvaricon, and i get 3.450 - 3.859 (with the fine control at extreme each side). These seem a bit over the top, giving a fair amount of the range where its not useful. Has anyone made any mods that reduce the overall coverage down a little, say to 3.49 - 3.81 ? Shouldnt be much more that adding a little extra parallel capacitance.
>
> 2. What have people chose for the internal loudspeaker, if used, and how positioned? (assuming standard case). Im testing with a 2.5inch speaker, which i think would be too large to keep the magnet away from the VFO. I have a 1.5inch ultra-thin membrane loudspeaker (3mm thick!) which im thinking of using.
>
> I'd love to hear peoples opinions on these two questions
>
> Cheers
>
> Martin
>
>
>
>
> HESH Computer Services Ltd
> 12 Louis Pearlman Centre
> Goulton Street
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>
> [Non-text portions of this message have been removed]
>

1762. RE: [mkars80] Microphonic

Yahoo group: mkars80
Date: 2010-07-05 19:46:32 UTC
From: Andrew Lenton
Topic: 1757 Message: 1762

Hi Ken,

I will give it a go and get back to you sounds a good idea

73

Andrew

From: mkars80@... [mailto:mkars80@...] On Behalf
Of K.Greenough
Sent: 05 July 2010 16:23
To: mkars80@...
Subject: Re: [mkars80] Microphonic

Hello Andrew,
I mounted my VFO coil on a small rubber pad and
put a dab of Evostick on the bottom of it and on all
the coils. The radio is not very microphonic.
I also used as short as possible lead lengths on
coils and transistors. What I have is a couple of
sproggies on Rx, quite low level so they don't bother me
but I'm a bit puzzled where they are being generated.
They vary in strength with the RF gain pot but not when I
short the aerial socket, got me puzzled hi. Possibly
harmonics of the VFO beating with the BFO or it's harmonics.
73 Ken g8beq

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1763. Re: [mkars80] Microphonic

Yahoo group: mkars80
Date: 2010-07-05 20:26:14 UTC
From: Steve Drury
Topic: 1757 Message: 1763

I use a small blob of silicon adhesive - the non corrosive sort.

Steve G6ALU

----- Original Message -----
From: "K.Greenough" <g0wbm@...>
To: <mkars80@...>
Sent: Monday, July 05, 2010 4:23 PM
Subject: Re: [mkars80] Microphonic

> Hello Andrew,
> I mounted my VFO coil on a small rubber pad and
> put a dab of Evostick on the bottom of it and on all
> the coils. The radio is not very microphonic.
> I also used as short as possible lead lengths on
> coils and transistors. What I have is a couple of
> sproggies on Rx, quite low level so they don't bother me
> but I'm a bit puzzled where they are being generated.
> They vary in strength with the RF gain pot but not when I
> short the aerial socket, got me puzzled hi. Possibly
> harmonics of the VFO beating with the BFO or it's harmonics.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>
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> ------------------------------------
>
> Yahoo! Groups Links
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1764. Re: [mkars80] Re: 2 questions - speaker choice and VFO coverage adjustments

Yahoo group: mkars80
Date: 2010-07-08 15:59:33 UTC
From: Clive Reynolds
Topic: 1751 Message: 1764

Hi Martin

I think from memory that the trimmers were fully meshed. Try a 39pf and perhaps unmesh the trimmers slightly and see what range you get. I certainly found that the bandspread effect you get made it much easier to tune without going to the trouble of fitting a ten turn pot and a varicap diode.

Clive

----- Original Message -----
From: zaktherabbit
To: mkars80@...
Sent: Monday, July 05, 2010 8:11 PM
Subject: [mkars80] Re: 2 questions - speaker choice and VFO coverage adjustments

Thanks Clive,

is that range with the polyvaricons trimmers fully meshed? did you measure the range with them un-meshed at all?

I'd like to keep the CW section, so will adjust mine to cover that. The only major mod i'd like is probably not possible with the PIC used, which would be to have USB available!

I used an ultra-slim membrane speaker in the end, fitted to the side of the case.

Not tested Tx on air yet, need to get an 80m antenna up, but having a new baby means not much time for that

Martin

--- In mkars80@..., "Clive Reynolds" <clive@...> wrote:
>
> Hi Martin
>
> I reduced the tuning range by fitting a silver mica 47pf capacitor across the tuning cap. Now get 3.58 - 3.85MHz; I didn't bother with coverage of the CW end of the band but left a bit just above the top end of the European allocation to listen for region 1 stations.
>
> I don't think you'll have to worry about the field from the speaker as most of the small speakers are well shielded.
>
> 73 Clive G3GJA
>
>
>
> ----- Original Message -----

> From: zaktherabbit
> To: mkars80@...
> Sent: Thursday, July 01, 2010 11:40 AM
> Subject: [mkars80] 2 questions - speaker choice and VFO coverage adjustments
>
>
>
> Hi Chaps,
>
> very pleased to report that my MKARS80 is sat on the shack desk, gently hissing away. The power switch is now a cheapo toggle, but thats temporary!
>
> Im rigged to a 10w dummy load as i have no HF antenna up at present, but will go to the rx longwire shortly to have a listen, once ive netted the BFO on the 'counter
>
> I have two questions -
>
> 1. Ive adjusted the VFO coverage using C38 and the trimmers on the polyvaricon, and i get 3.450 - 3.859 (with the fine control at extreme each side). These seem a bit over the top, giving a fair amount of the range where its not useful. Has anyone made any mods that reduce the overall coverage down a little, say to 3.49 - 3.81 ? Shouldnt be much more that adding a little extra parallel capacitance.
>
> 2. What have people chose for the internal loudspeaker, if used, and how positioned? (assuming standard case). Im testing with a 2.5inch speaker, which i think would be too large to keep the magnet away from the VFO. I have a 1.5inch ultra-thin membrane loudspeaker (3mm thick!) which im thinking of using.
>
> I'd love to hear peoples opinions on these two questions
>
> Cheers
>
> Martin
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[Non-text portions of this message have been removed]

1765. LED on transmit

Yahoo group: mkars80
Date: 2010-07-10 23:29:01 UTC
From: ei8ggb
Topic: 1765 Message: 1765

Sorry if this question has been asked elsewhere on this group, but could someone please explain what exactly should the modulation led be doing on transmit?
I have noticed that my led lights up constantly or flickers or goes out completely depending on how close I speak into the mic. What should it be doing in normal operation?
Is the led used as a meter of sorts?
Once again sorry if this has been already covered.
Many thanks.

1766. Re: [mkars80] LED on transmit

Yahoo group: mkars80
Date: 2010-07-11 07:02:37 UTC
From: Steve Drury
Topic: 1765 Message: 1766

Talk loud enough so the LED flickers On and OFF during speach - it monitors saturation of the output transistor. The LED should not be permanently off and for best TX power not permanently on.

Steve G6ALU

----- Original Message -----
From: "ei8ggb" <ei8ggb@...>
To: <mkars80@...>
Sent: Sunday, July 11, 2010 12:29 AM
Subject: [mkars80] LED on transmit

> Sorry if this question has been asked elsewhere on this group, but could
> someone please explain what exactly should the modulation led be doing on
> transmit?
> I have noticed that my led lights up constantly or flickers or goes out
> completely depending on how close I speak into the mic. What should it be
> doing in normal operation? Is the led used as a meter of sorts?
> Once again sorry if this has been already covered.
> Many thanks.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1767. Re: LED on transmit

Yahoo group: mkars80
Date: 2010-07-11 12:06:58 UTC
From: ei8ggb
Topic: 1765 Message: 1767

Thanks for clearing that up for me Steve.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Talk loud enough so the LED flickers On and OFF during speach - it monitors
> saturation of the output transistor. The LED should not be permanently off
> and for best TX power not permanently on.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "ei8ggb" <ei8ggb@...>
> To: <mkars80@...>
> Sent: Sunday, July 11, 2010 12:29 AM
> Subject: [mkars80] LED on transmit
>
>
> > Sorry if this question has been asked elsewhere on this group, but could
> > someone please explain what exactly should the modulation led be doing on
> > transmit?
> > I have noticed that my led lights up constantly or flickers or goes out
> > completely depending on how close I speak into the mic. What should it be
> > doing in normal operation? Is the led used as a meter of sorts?
> > Once again sorry if this has been already covered.
> > Many thanks.
> >
> >
> >
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> > Yahoo! Groups Links
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>

1768. LSB...USB

Yahoo group: mkars80
Date: 2010-07-11 17:32:52 UTC
From: K.Greenough
Topic: 1768 Message: 1768

Martin said he'd like to be able to use USB [not sure why
on 80m hi], I suspect that all that's needed is to change the
BFO crystal, it's 10 MHz for LSB so I would guess that
9.006 MHz or close would give USB. It wouldn't be hard
to switch crystals.
73 Ken g8beq

[Non-text portions of this message have been removed]

1769. Re: [mkars80] LSB...USB

Yahoo group: mkars80
Date: 2010-07-11 18:11:49 UTC
From: Steve Drury
Topic: 1768 Message: 1769

Hi Ken,

I wouldn't advise inverting the sideband as the filter shape isn't realy suitable, if he wants USB for PSK31 use don't worry as it will still work on LSB.

Steve

----- Original Message -----
From: "K.Greenough" <g0wbm@...>
To: <mkars80@...>
Sent: Sunday, July 11, 2010 6:32 PM
Subject: [mkars80] LSB...USB

> Martin said he'd like to be able to use USB [not sure why
> on 80m hi], I suspect that all that's needed is to change the
> BFO crystal, it's 10 MHz for LSB so I would guess that
> 9.006 MHz or close would give USB. It wouldn't be hard
> to switch crystals.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

1770. Re: [mkars80] LSB...USB

Yahoo group: mkars80
Date: 2010-07-11 18:54:21 UTC
From: Trygve Sjothun
Topic: 1768 Message: 1770

Chaps,

Sorry to come over obtuse but how can I do PSK31 on LSB? I have been assured that I can but I'd love to know how.

Cheers,

Tryg

--
"Our virtues and our failings are inseparable, like force and matter. When they separate, man is no more." Nikola Tesla 1857 - 1943

[Non-text portions of this message have been removed]

1771. Re: [mkars80] LSB...USB

Yahoo group: mkars80
Date: 2010-07-11 19:27:36 UTC
From: Thomas S. Knutsen
Topic: 1768 Message: 1771

An 9.006MHz would be useless since the filter is at 10MHz.
What he needs is to insert an inductor in series with the crystal so that he can pull it down to around 9.998MHz or so. This also depends on the filter shape, in this transceiver I'l guess it is made to have as much oposite sideband supression as possible, and in that case it may be useless on USB. Given that, most digimodes work both in USB and LSB, for PSK31 make sure you use BPSK31.

73 de Thomas LA3PNA.

2010/7/11 K.Greenough <g0wbm@...>

>
>
> Martin said he'd like to be able to use USB [not sure why
> on 80m hi], I suspect that all that's needed is to change the
> BFO crystal, it's 10 MHz for LSB so I would guess that
> 9.006 MHz or close would give USB. It wouldn't be hard
> to switch crystals.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>
>
>

--

Please avoid sending me Word or PowerPoint attachments.
See <http://www.gnu.org/philosophy/no-word-attachments.html>

[Non-text portions of this message have been removed]

1772. Re: [mkars80] LSB...USB

Yahoo group: mkars80
Date: 2010-07-11 19:54:17 UTC
From: K.Greenough
Topic: 1768 Message: 1772

Hello Thomas,
That was just a slip of my typing finger hi, it was
meant to be 9.996 MHz, ie about 4 KHz lowerm
but Steve says the filter shape isn't suitable so
forget I wrote it hi.
73 Ken g8beq

[Non-text portions of this message have been removed]

1773. Re: [mkars80] LSB...USB

Yahoo group: mkars80
Date: 2010-07-11 19:44:42 UTC
From: Steve Drury
Topic: 1768 Message: 1773

Yes, I use Digipan in BPSK31 mode... not much activity at the momet though.

Steve G6ALU

----- Original Message -----
From: "Thomas S. Knutsen" <la3pna@...>
To: <mkars80@...>
Sent: Sunday, July 11, 2010 8:27 PM
Subject: Re: [mkars80] LSB...USB

> An 9.006MHz would be useless since the filter is at 10MHz.
> What he needs is to insert an inductor in series with the crystal so that
> he
> can pull it down to around 9.998MHz or so. This also depends on the filter
> shape, in this transceiver I'l guess it is made to have as much oposite
> sideband supression as possible, and in that case it may be useless on
> USB.
> Given that, most digimodes work both in USB and LSB, for PSK31 make sure
> you
> use BPSK31.
>
> 73 de Thomas LA3PNA.
>
>
> 2010/7/11 K.Greenough <g0wbm@...>
>
>>
>>
>> Martin said he'd like to be able to use USB [not sure why
>> on 80m hi], I suspect that all that's needed is to change the
>> BFO crystal, it's 10 MHz for LSB so I would guess that
>> 9.006 MHz or close would give USB. It wouldn't be hard
>> to switch crystals.
>> 73 Ken g8beq
>>
>> [Non-text portions of this message have been removed]
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> --
>
> Please avoid sending me Word or PowerPoint attachments.
> See <http://www.gnu.org/philosophy/no-word-attachments.html>

>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1774. Re: LSB...USB

Yahoo group: mkars80
Date: 2010-07-12 12:52:17 UTC
From: zaktherabbit
Topic: 1768 Message: 1774

Hi Chaps,

just to clarify, my interest in USB would be to listen to the maritime signals occasionally found on 80m (mostly coastguard stations), although it sparked an interesting discussion on the use of this set for digimodes

but as Steve has pointed out the filter shape isnt suitable.

Actually at the moment i'd settle for managing to get an antenna up so i can actually use the rig!!!

Martin

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Yes, I use Digipan in BPSK31 mode... not much activity at the momet though.
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Thomas S. Knutsen" <la3pna@...>
> To: <mkars80@....uk>
> Sent: Sunday, July 11, 2010 8:27 PM
> Subject: Re: [mkars80] LSB...USB
>
>
> > An 9.006MHz would be useless since the filter is at 10MHz.
> > What he needs is to insert an inductor in series with the crystal so that
> > he
> > can pull it down to around 9.998MHz or so. This also depends on the filter
> > shape, in this transceiver I'l guess it is made to have as much oposite
> > sideband supression as possible, and in that case it may be useless on
> > USB.
> > Given that, most digimodes work both in USB and LSB, for PSK31 make sure
> > you
> > use BPSK31.
> >
> > 73 de Thomas LA3PNA.
> >
> >
> > 2010/7/11 K.Greenough <g0wbm@...>
> >
> >>
> >>
> >> Martin said he'd like to be able to use USB [not sure why
> >> on 80m hi], I suspect that all that's needed is to change the

> >> BFO crystal, it's 10 MHz for LSB so I would guess that
> >> 9.006 MHz or close would give USB. It wouldn't be hard
> >> to switch crystals.
> >> 73 Ken g8beq
> >>
> >> [Non-text portions of this message have been removed]
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> > --
> >
> > Please avoid sending me Word or PowerPoint attachments.
> > See <http://www.gnu.org/philosophy/no-word-attachments.html>
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> >
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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>

1775. Re: [mkars80] Digest Number 430

Yahoo group: mkars80
Date: 2010-07-12 12:52:06 UTC
From: Nigel Gunn G8IFF/W8IFF
Topic: 1775 Message: 1775

You just do it.
PSK31 doesn't care which sideband you use.

On 12-Jul-10 12:45, mkars80@... wrote:
essages in this topic (6)
> _____
> 2.3. Re: LSB...USB
> Posted by: "Trygve Sjothun" triggertech@... trygvesjothun
> Date: Sun Jul 11, 2010 8:19 pm
>
> Chaps,
>
> Sorry to come over obtuse but how can I do PSK31 on LSB? I have been assured
> that I can but I'd love to know how.
>
> Cheers,
>
> Tryg

1776. RE: [mkars80] Digest Number 430

Yahoo group: mkars80
Date: 2010-07-12 13:27:05 UTC
From: David White
Topic: 1775 Message: 1776

well said nigel, i didnt notice that i had chosen the wrong sideband one day and it still worked ok de G3ZPA

NNNN

To: notify-dg-mkars80@...
CC: mkars80@...
From: nigel@...
Date: Mon, 12 Jul 2010 12:52:06 +0000
Subject: Re: [mkars80] Digest Number 430

You just do it.
PSK31 doesn't care which sideband you use.

On 12-Jul-10 12:45, mkars80@... wrote:
essages in this topic (6)
> _____
> 2.3. Re: LSB...USB
> Posted by: "Trygve Sjothun" triggertech@... trygvesjothun
> Date: Sun Jul 11, 2010 8:19 pm
>
> Chaps,
>
> Sorry to come over obtuse but how can I do PSK31 on LSB? I have been assured
> that I can but I'd love to know how.
>
> Cheers,
>
> Tryg

_____
http://clk.atdmt.com/UKM/go/195013117/direct/01/
We want to hear all your funny, exciting and crazy Hotmail stories. Tell us now

[Non-text portions of this message have been removed]

1777. RE: [mkars80] Digest Number 430

Yahoo group: mkars80
Date: 2010-07-13 22:25:42 UTC
From: Pete Gow
Topic: 1775 Message: 1777

It doesn't matter if it is upper or lower if you are decoding the signals then you can transmit the signals.

The data doesn't care what mode it is employing to get around the world it just wants too travel.

Pete de G7VHJ

To: mkars80@...
From: davidwhite400@...
Date: Mon, 12 Jul 2010 13:27:05 +0000
Subject: RE: [mkars80] Digest Number 430

well said nigel, i didnt notice that i had chosen the wrong sideband one day and it still worked ok de G3ZPA

NNNN

To: notify-dg-mkars80@yahoogroups.co.uk
CC: mkars80@...
From: nigel@...
Date: Mon, 12 Jul 2010 12:52:06 +0000
Subject: Re: [mkars80] Digest Number 430

You just do it.
PSK31 doesn't care which sideband you use.

On 12-Jul-10 12:45, mkars80@... wrote:
essages in this topic (6)
> _____
> 2.3. Re: LSB...USB
> Posted by: "Trygve Sjothun" triggertech@... trygvesjothun
> Date: Sun Jul 11, 2010 8:19 pm
>
> Chaps,
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[Non-text portions of this message have been removed]

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http://clk.atdmt.com/UKM/go/195013117/direct/01/
We want to hear all your funny, exciting and crazy Hotmail stories. Tell us now

[Non-text portions of this message have been removed]

1778. Re: Digest Number 430...QPSK vs BPSK Sideband

Yahoo group: mkars80
Date: 2010-07-17 22:02:49 UTC
From: Ken
Topic: 1775 Message: 1778

When using BPSK mode, the sideband does not matter. However, if
you're using *QPSK* and copying a station and call them,
you must be on the same sideband, or your transmit
signal will be off frequency, and you'll end up chasing
each other up or down the band.

While the de facto default for QPSK is USB, Digipan software
allows you to use either USB or LSB for
each band. At the top of the screen click
on "Configure". On the drop down menu click
on "Band", and it will display Band Properties
for Tone, USB, LSB, as well as Spectrum Display
Start Frequency for the waterfall. Be sure to click
on "Activate" (to the left of the Band list) then "OK"
when you are finished making your settings.
Happy Warbling!
73, Ken AD6KA/5R8GQ

--- In mkars80@yahoogroups.co.uk, Pete Gow <g7vhj@...> wrote:
>
>
> It doesn't matter if it is upper or lower if you are decoding the signals then you can
transmit the signals.
>
> The data doesn't care what mode it is employing to get around the world it just wants too
travel.
>
> Pete de G7VHJ
>
>
>
> To: mkars80@...
> From: davidwhite400@...
> Date: Mon, 12 Jul 2010 13:27:05 +0000
> Subject: RE: [mkars80] Digest Number 430
>
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>
> well said nigel, i didnt notice that i had chosen the wrong sideband one day and it still
worked ok de G3ZPA
>
> NNNN

>
> To: notify-dg-mkars80@...
> CC: mkars80@...
> From: nigel@...
> Date: Mon, 12 Jul 2010 12:52:06 +0000
> Subject: Re: [mkars80] Digest Number 430
>
> You just do it.
> PSK31 doesn't care which sideband you use.
>
> On 12-Jul-10 12:45, mkars80@... wrote:
> essages in this topic (6)
> > ____
> > 2.3. Re: LSB...USB
> > Posted by: "Trygve Sjothun" triggertech@... trygvesjothun
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> > Sorry to come over obtuse but how can I do PSK31 on LSB? I have been assured
> > that I can but I'd love to know how.
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> > Tryg
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>
> ____
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>
> [Non-text portions of this message have been removed]
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>
> ____
> http://clk.atdmt.com/UKM/go/195013117/direct/01/
> We want to hear all your funny, exciting and crazy Hotmail stories. Tell us now
>
> [Non-text portions of this message have been removed]
>

1779. Mounting Controls & Display Off PC Board

Yahoo group: mkars80
Date: 2010-07-18 03:25:15 UTC
From: Ken
Topic: 1779 Message: 1779

Hi: I was in an electronics shop downtown today and saw some very nice alternative enclosures for the MKARS80 kit. Found some very nice colorful backlit 1602 type backlit LCD displays as well. Nothing wrong with the enclosure that came with the kit of course. But I like the performance of the basic unit so much that I would like to use the MKARS basic board as part of a larger "transceiver project" with more features. I plan lto add the CW Adapter Kit, possibly a small digital playback chip for "Auto CQ", and a small PWR/SWR meter. I may even convert that crankey Ramsey 20m 20 watt amp I have to 80m (just swap out the LPF) and add that, though I would not be able to use it for full break in or semi break in CW, just SSB. Anyway...

What effect does remote mounting VR1, VR2 and the tuning polyvaricon have on performance? I can see where there might be a problem with the polyvaricon being hooked up off the board and picking up stray RFI and/or having tuning effects on the VFO circuit. I would use high quality, well shielded small coax like RG-316 for the to-board connections for the polyvaricon, and all internal RF connections, maybe even audio as well. I don't see any problems at all with mounting the digital display several inches away. (Found some very nice colorful backlit 16 x 2 LCD displays as well)

Has anyone mounted these three controls offf of the board?

What was your experience and can you offer any tips?
tnx es 73, Ken AD6KA/5R8GQ

[Non-text portions of this message have been removed]

1780. Re: [mkars80] Re: Digest Number 430...QPSK vs BPSK Sideband

Yahoo group: mkars80
Date: 2010-07-18 11:22:53 UTC
From: Trygve Sjothun
Topic: 1775 Message: 1780

That's useful info - thanks Ken, good to know a few more in's and out's wrt Digpan. Cheers.

On 17 July 2010 23:02, Ken <kenp@...> wrote:

>
>
> When using BPSK mode, the sideband does not matter. However, if
> you're using *QPSK* and copying a station and call them,
> you must be on the same sideband, or your transmit
> signal will be off frequency, and you'll end up chasing
> each other up or down the band.
>
> While the de facto default for QPSK is USB, Digipan software
> allows you to use either USB or LSB for
> each band. At the top of the screen click
> on "Configure". On the drop down menu click
> on "Band", and it will display Band Properties
> for Tone, USB, LSB, as well as Spectrum Display
> Start Frequency for the waterfall. Be sure to click
> on "Activate" (to the left of the Band list) then "OK"
> when you are finished making your settings.
> Happy Warbling!
> 73, Ken AD6KA/5R8GQ
>
> --- In mkars80@... <mkars80%40yahoogroups.co.uk>, Pete Gow
> <g7vhj@...> wrote:
> >
> >
> > It doesn't matter if it is upper or lower if you are decoding the signals
> then you can transmit the signals.
> >
> > The data doesn't care what mode it is employing to get around the world
> it just wants too travel.
> >
> > Pete de G7VHJ
> >
> >
> >
> > To: mkars80@... <mkars80%40yahoogroups.co.uk>
> > From: davidwhite400@...
> > Date: Mon, 12 Jul 2010 13:27:05 +0000
> > Subject: RE: [mkars80] Digest Number 430
> >
> >

> >
> >
> >
> >
> > well said nigel, i didnt notice that i had chosen the wrong sideband one
> day and it still worked ok de G3ZPA
> >
> > NNNN
> >
> > To: notify-dg-mkars80@yahoogroups.co.uk<notify-dg-mkars80%40yahoogroups.co.uk>
> > CC: mkars80@yahoogroups.co.uk <mkars80%40yahoogroups.co.uk>
> > From: nigel@...
> > Date: Mon, 12 Jul 2010 12:52:06 +0000
> > Subject: Re: [mkars80] Digest Number 430
> >
> > You just do it.
> > PSK31 doesn't care which sideband you use.
> >
> > On 12-Jul-10 12:45, mkars80@...<mkars80%40yahoogroups.co.uk>wrote:
> > essages in this topic (6)
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> > > 2.3. Re: LSB...USB
> > > Posted by: "Trygve Sjothun" triggertech@... trygvesjothun
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> > >
> > > Chaps,
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> > > Sorry to come over obtuse but how can I do PSK31 on LSB? I have been
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> > > Cheers,
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> > > Tryg
> >
> >
> > _____
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> > [Non-text portions of this message have been removed]
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> >
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> >
> > [Non-text portions of this message have been removed]
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>

--
"Our virtues and our failings are inseparable, like force and matter. When they separate, man is no more." Nikola Tesla 1857 - 1943

[Non-text portions of this message have been removed]

1781. Re: T1,T3 Which way up on circuit board?

Yahoo group: mkars80
Date: 2010-07-18 18:52:52 UTC
From: Ken
Topic: 1709 Message: 1781

Hello Richard:

Since the Primary and Secondary windings
are identical, you are correct, it does does not
matter which end goes which way on the PC board.
Do tin the wires before installing and double check
the continuity to make sure there isn't a short between
the primary and secondary. Quite unlikely, but.....just one
of those small details to check to avoid trouble later.
I try to make sure part of the tinned
wires extends a couple of mm above the top
side of the board, but that's just me.

Put all four wires through the holes, then pull
them gently snug on the solder side (pull
wires to the side about 45 degrees to hold them in place)
and then turn the board over again to check your work
on the component side(see if there is still some tin
showing on the top side).

I have found that a good pair of electronic grade
tweezers is great for this. I sometimes also pull
the wires snug again (after initial installation)
by heating and melting the joint while pulling lightly
on the transformer wire. (Do this gently so as not to break
the wire, been there, done that, it's no fun especially
if it breaks off too short to resolder,hihi) This step may be
seem a bit anal but that's the way I am about construction.
It's also a good technique to hold round toroid
inductors in place without using unsightly glue.

Be careful is using tis "melt the transformer wire solder
joint and tug them snug" technique when installing
the trifilar transformers (T4, T5,T6) as you are
"sugging up" a rectangular core with with tindings
on only one side. Tugging them too
tightly makes the core end up sitting on the board at a
an angle. Bad contruction practice and looks
ridiculous. (I know,I did it! Easy fix) After everything checked
electrically I just gently lifted those trifilar cores and slipped
in a piece of double sided "Scotch" tape carefully cut
to the size of the core.(Another handy use
for those good tweezers!)

Have fun, hope this helps.
Sorry for being so long winded!

73, Ken AD6KA

--- In mkars80@..., "richard_forss" <richard@...> wrote:
>
> OK, Got this far without incident. About to solder T1 and T3, but not indication of which way around these go on the PCB.
>
> Am I missing something? Does it matter? The manual clearly shows how to install T4,T5 and T6 transformers, but does not shwo the same detaul for T1,T3.
>
> Thanks in advance...
>
> Richard Forss M6IXI
>

1782. Modified MKARS80 on eBay

Yahoo group: mkars80
Date: 2010-07-25 19:33:05 UTC
From: Steve
Topic: 1782 Message: 1782

Just noticed a very nice MKARS80 on eBay, item 230503209165.

It's in a very nice case, has an s meter, backlit LCD and varicap tuning added.
Unfortunately it's not mine. Does anyone know the source of the case used?

Steve 2E0SGB

1783. Re: Modified MKARS80 on eBay

Yahoo group: mkars80
Date: 2010-07-25 22:20:36 UTC
From: Ken
Topic: 1782 Message: 1783

The info appears to be listed under the product decription
in the "Questions to Seller" section. You have to log into
Ebay to read the entire reply. I didn't bother.
If in fact it is not there, you can email the seller.
Via his call, 2w0jmk, e-mail addy listed at QRZ.
73, Ken AD6KA

--- In mkars80@..., "Steve" <listsmail@...> wrote:
>
> Just noticed a very nice MKARS80 on eBay, item 230503209165.
>
> It's in a very nice case, has an s meter, backlit LCD and varicap tuning added.
Unfortunately it's not mine. Does anyone know the source of the case used?
>
> Steve 2E0SGB
>

1784. Re: [mkars80] Modified MKARS80 on eBay

Yahoo group: mkars80
Date: 2010-07-25 21:56:56 UTC
From: G4DFV
Topic: 1782 Message: 1784

Steve,

I emailed the seller and he said that he obtained the case from Rapid Electronics for £16.00.

Best 73

Duncan G4DFV

[Non-text portions of this message have been removed]

1785. Re: Modified MKARS80 on eBay

Yahoo group: mkars80
Date: 2010-07-26 09:14:14 UTC
From: mark
Topic: 1782 Message: 1785

Hi all the MKars80 on ebay is mine the case was bought from rapid electronics at a cost of £16.00 plus the p&p. It is one of the HAMMOND CASES. I did look on rapid for the code but they don't seem to have the case on there now.
All the best from Mark 2w0jmk.

1786. Re: [mkars80] Re: Modified MKARS80 on eBay

Yahoo group: mkars80
Date: 2010-07-26 15:53:11 UTC
From: DAVID CLENCH
Topic: 1782 Message: 1786

Farnel appear to disribute Hammond cases in the UK. Thanks for info Mark.

Dave G0BVV

From: mark <mw3hqt@...>
To: mkars80@...
Sent: Monday, 26 July, 2010 10:14:14
Subject: [mkars80] Re: Modified MKARS80 on eBay

Hi all the MKars80 on ebay is mine the case was bought from rapid electronics at
a cost of £16.00 plus the p&p. It is one of the HAMMOND CASES. I did look on
rapid for the code but they don't seem to have the case on there now.
All the best from Mark 2w0jmk.

<!-- #ygrp-mkp { border:1px solid
#d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;} #ygrp-mkp hr {
border:1px solid #d8d8d8;} #ygrp-mkp #hd {
color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}
#ygrp-mkp #ads { margin-bottom:10px;} #ygrp-mkp .ad { padding:0 0;} #ygrp-mkp
.ad a { color:#0000ff;text-decoration:none;} #ygrp-sponsor #ygrp-lc {
font-family:Arial;} #ygrp-sponsor #ygrp-lc #hd { margin:10px
0px;font-weight:700;font-size:78%;line-height:122%;} #ygrp-sponsor #ygrp-lc .ad
{ margin-bottom:10px;padding:0 0;} a { color:#1e66ae;} #actions {
font-family:Verdana;font-size:11px;padding:10px 0;} #activity {
background-color:#e0ecee;float:left;font-family:Verdana;font-size:10px;padding:10px;}
#activity span { font-weight:700;} #activity span:first-child {
text-transform:uppercase;} #activity span a {
color:#5085b6;text-decoration:none;} #activity span span { color:#ff7900;}
#activity span .underline { text-decoration:underline;} .attach {
clear:both;display:table;font-family:Arial;font-size:12px;padding:10px
0;width:400px;} .attach div a { text-decoration:none;} .attach img {
border:none;padding-right:5px;} .attach label {
display:block;margin-bottom:5px;} .attach label a { text-decoration:none;}
blockquote { margin:0 0 0 4px;} .bold {
font-family:Arial;font-size:13px;font-weight:700;} .bold a {
text-decoration:none;} dd.last p a { font-family:Verdana;font-weight:700;}
dd.last p span { margin-right:10px;font-family:Verdana;font-weight:700;}
dd.last p span.yshortcuts { margin-right:0;} div.attach-table div div a {
text-decoration:none;} div.attach-table { width:400px;} div.file-title a,
div.file-title a:active, div.file-title a:hover, div.file-title a:visited {
text-decoration:none;} div.photo-title a, div.photo-title a:active,
div.photo-title a:hover, div.photo-title a:visited { text-decoration:none;}
div#ygrp-mlmsg #ygrp-msg p a span.yshortcuts {
font-family:Verdana;font-size:10px;font-weight:normal;} .green {
color:#628c2a;} .MsoNormal { margin:0 0 0 0;} o { font-size:0;} #photos div {
float:left;width:72px;} #photos div div { border:1px solid

#666666;height:62px;overflow:hidden;width:62px;} #photos div label {
color:#666666;font-size:10px;overflow:hidden;text-align:center;white-space:nowrap;width:64
px;}
#reco-category { font-size:77%;} #reco-desc { font-size:77%;} .replbq {
margin:4px;} #ygrp-actbar div a:first-child {
margin-right:2px;padding-right:5px;} #ygrp-mlmsg {
font-size:13px;font-family:Arial, helvetica, clean, sans-serif;} #ygrp-mlmsg
table { font-size:inherit;font:100%;} #ygrp-mlmsg select, input, textarea {
font:99% Arial, Helvetica, clean, sans-serif;} #ygrp-mlmsg pre, code {
font:115% monospace;} #ygrp-mlmsg * { line-height:1.22em;} #ygrp-mlmsg #logo {
padding-bottom:10px;} #ygrp-mlmsg a { color:#1E66AE;} #ygrp-msg p a {
font-family:Verdana;} #ygrp-msg p#attach-count span {
color:#1E66AE;font-weight:700;} #ygrp-reco #reco-head {
color:#ff7900;font-weight:700;} #ygrp-reco { margin-bottom:20px;padding:0px;}
#ygrp-sponsor #ov li a { font-size:130%;text-decoration:none;} #ygrp-sponsor
#ov li { font-size:77%;list-style-type:square;padding:6px 0;} #ygrp-sponsor #ov
ul { margin:0;padding:0 0 0 8px;} #ygrp-text { font-family:Georgia;}
#ygrp-text p { margin:0 0 1em 0;} #ygrp-text tt { font-size:120%;} #ygrp-vital
ul li:last-child { border-right:none !important; } -->

[Non-text portions of this message have been removed]

1787. Re: [mkars80] Re: Modified MKARS80 on eBay

Yahoo group: mkars80
Date: 2010-07-26 07:15:19 UTC
From: Steve Bell
Topic: 1782 Message: 1787

Mark emailed me last night. The case came from Rapid Electronics.

Steve 2EOSGB

On 25 Jul 2010, at 23:20, Ken wrote:

> The info appears to be listed under the product decription
> in the "Questions to Seller" section. You have to log into
> Ebay to read the entire reply. I didn't bother.
> If in fact it is not there, you can email the seller.
> Via his call, 2w0jmk, e-mail addy listed at QRZ.
> 73, Ken AD6KA
>
>
> --- In mkars80@....uk, "Steve" <listsmail@...> wrote:
> >
> > Just noticed a very nice MKARS80 on eBay, item 230503209165.
> >
> > It's in a very nice case, has an s meter, backlit LCD and varicap
> tuning added. Unfortunately it's not mine. Does anyone know the
> source of the case used?
> >
> > Steve 2E0SGB
> >
>
>
>

1788. Re: [mkars80] Re: Modified MKARS80 on eBay

Yahoo group: mkars80
Date: 2010-07-27 00:16:20 UTC
From: Ken Pendarvis
Topic: 1782 Message: 1788

Great Steve,
Good luck with your project.
I just ordered the CW adapter, I might be looking
for a larger case too.
73,Ken AD6KA

----- Original Message -----
From: "Steve Bell" <listsmail@...>
To: <mkars80@...>
Sent: Monday, July 26, 2010 12:15 AM
Subject: Re: [mkars80] Re: Modified MKARS80 on eBay

> Mark emailed me last night. The case came from Rapid Electronics.
>
> Steve 2EOSGB
>
> On 25 Jul 2010, at 23:20, Ken wrote:
>
>> The info appears to be listed under the product decription
>> in the "Questions to Seller" section. You have to log into
>> Ebay to read the entire reply. I didn't bother.
>> If in fact it is not there, you can email the seller.
>> Via his call, 2w0jmk, e-mail addy listed at QRZ.
>> 73, Ken AD6KA
>>
>>
>> --- In mkars80@..., "Steve" <listsmail@...> wrote:
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>> > Just noticed a very nice MKARS80 on eBay, item 230503209165.
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>> > It's in a very nice case, has an s meter, backlit LCD and varicap
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>> source of the case used?
>> >
>> > Steve 2E0SGB
>> >
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> ------------------------------------
>
> Yahoo! Groups Links

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1789. Another MKARS80 comes to live in ZL

Yahoo group: mkars80
Date: 2010-08-04 09:26:24 UTC
From: shawchris82
Topic: 1789 Message: 1789

Just to let everyone know that my MKARS80 is now finished.

A big thank you to Steve for dealing so promptly when I ordered the kit in April and for his advice yesterday. I have learned a lot doing this especially:
don't build when tired
use a hot iron to ensure that the coil wire enamel burns off
print the circuit diagram large - 4 x A4 sheets
check the voltages against the manual sooner rather than later

Steve - the problem in tx was that Q9 was 0,0,0 volts in tx. I checked all the voltages as the 'scope shown not tx at all. This led me to T3 and a check (which I thought I had done) showed one side of the coil was not connected. A hot iron (40W) on both sides fixed it in seconds. Sure enough the modulation light then extinguished against my voice peaks.

First QSOs tonight - one in Christchurch and the other lower South Island. Good reports.

Thanks a lot

Chris ZL4CTS

1790. Still my favorite radio in the shack after a year

Yahoo group: mkars80
Date: 2010-09-02 02:46:16 UTC
From: Charley
Topic: 1790 Message: 1790

My MKARS80 is over a year old and still the best little radio you can buy. It never drifts and I always get great reports about my audio. I took it on holiday with me and made a tiny L match with resistive bridge SWR indication and 40 meters of thin wire. I threw the wire into a tree 4 meters high and made several QSO's the best being 1600 miles, not bad for 5 watts and a wire in a tree. At home on my 9 meter high dipole I have worked most of Australia. I love this radio, flawless.

Charley
VK2ZYZ

1791. Re: Still my favorite radio in the shack after a year

Yahoo group: mkars80
Date: 2010-09-02 09:31:30 UTC
From: John
Topic: 1790 Message: 1791

Yes Charley, I agree an absolute fantastic TXR which has also given me hours of pleasure.

John (M0TIF)

--- In mkars80@..., "Charley" <rameses32@...> wrote:
>
> My MKARS80 is over a year old and still the best little radio you can buy. It never drifts and I always get great reports about my audio. I took it on holiday with me and made a tiny L match with resistive bridge SWR indication and 40 meters of thin wire. I threw the wire into a tree 4 meters high and made several QSO's the best being 1600 miles, not bad for 5 watts and a wire in a tree. At home on my 9 meter high dipole I have worked most of Australia. I love this radio, flawless.
>
> Charley
> VK2ZYZ
>

1792. My L match tuner

Yahoo group: mkars80
Date: 2010-09-03 03:31:59 UTC
From: Charley
Topic: 1792 Message: 1792

Here's a quick description of my L-match tuner with LED SWR indication. I wanted a very small L-match tuner to go with my MKARS80 for portible operation, I settled on a Schematic by Stephen Yates AA5TB. I used only parts I found in my junk box so it cost me all of about $5. The enclosure I made from single sided board. The inductor came from Jaycar electronics, CAT# LO1234 Material L8(what ever that is) 25mm x 15mm x 10mm. The wire is .63mm magnet wire. I used 1/4 watt 100ohm resistors in parallel because thats all I had, and after many hours of use they haven't given me any problems. I just wound the toroid with a tap every 6 turns and soldered each tap the a pin on a rotary switch.

The little tuner works great and to use it I just whistle lightly into the the mic on the MKARS80 and tune until the LED goes out, I have checked it several times with an actual SWR meter and it always tunes to 1:1 SWR. The little tuner also work with my pixie 2 and I will be using it with my next rig, a SW+40.

I am uploading some pictures of the tuner to a folder called VK2ZYZ L-Match along with the schematic if your interested.

Charley
VK2ZYZ

1793. What did I wrong?

Yahoo group: mkars80
Date: 2010-09-05 15:19:31 UTC
From: kraak_jan
Topic: 1793 Message: 1793

Hello Om,

A few days ago I have finisd to make my radio the mkars80kit but I don't receive any station...
I Have checked for wrong placed parts but find nothing wrong also checked for the value of the voltagetables pages 21 of the manual these are correct (only measured in rx mode)
The display is working fine also the vfo range in mine case is going from 3.450 to 3.9 mhz
With a frequencycounter on TP 10mhz measured
I only hear a low sound (noise) from the speaker
If I tip on point 3 of the LM386 then I hear a loud noise from the speaker

What is going wrong?

73's Jan PE1PLU

1794. Re: [mkars80] What did I wrong?

Yahoo group: mkars80
Date: 2010-09-05 19:01:41 UTC
From: DAVID CLENCH
Topic: 1793 Message: 1794

Hi Jan
I had a similar problem and it turned out to be bad solder joints on T6. Check the solder connections on T4, T5 & T6. They need plenty of heat to melt the varnish on the windings.

Hope this helps.

Regards

Dave G0BVV.

From: kraak_jan <jankraak@...>
To: mkars80@...
Sent: Sunday, 5 September, 2010 16:19:31
Subject: [mkars80] What did I wrong?

Hello Om,

A few days ago I have finisd to make my radio the mkars80kit but I don't receive any station...
I Have checked for wrong placed parts but find nothing wrong also checked for the value of the voltagetables pages 21 of the manual these are correct (only measured in rx mode)

The display is working fine also the vfo range in mine case is going from 3.450 to 3.9 mhz
With a frequencycounter on TP 10mhz measured
I only hear a low sound (noise) from the speaker
If I tip on point 3 of the LM386 then I hear a loud noise from the speaker

What is going wrong?

73's Jan PE1PLU

[Non-text portions of this message have been removed]

1795. TX not work

Yahoo group: mkars80
Date: 2010-09-05 19:14:43 UTC
From: SA2AWO
Topic: 1793 Message: 1795

My problem is not the RX my problem is TX ...

but can tell this is my first build, has absolutely no customer munity on the subject. But bought MKRS80
to test my customer skills. Everything works except the TX ...
can anyone help me with my problem, it would be fun to try QRP

Sorry for my bad english

73 de sa2awo

[Non-text portions of this message have been removed]

1796. Re: [mkars80] TX not work

Yahoo group: mkars80
Date: 2010-09-05 21:36:34 UTC
From: K.Greenough
Topic: 1793 Message: 1796

Hello SA2AWO [sorry you didn't give your name],
Have you got another receiver that can tune to 10 MHz?
If so you should be able to hear the SSB signal out of the
crystal filter. If you can't hear this then your fault is before
the filter, if you can then it's after the filter. Let us know your
findings and we can take it further.
73 Ken g8beq

[Non-text portions of this message have been removed]

1797. Re: [mkars80] TX not work

Yahoo group: mkars80
Date: 2010-09-06 02:35:28 UTC
From: Sa2awo
Topic: 1793 Message: 1797

Hello Ken

Sorry i miss to wrote my name..My name is Mats!

Yes i have 3 receiver so i can test to tune on 10 MHz
But i should i drive to work and will write back for
more info...

73 de sa2awo "Mats"

From: K.Greenough
Sent: Monday, September 06, 2010 2:06 AM
To: mkars80@...
Subject: Re: [mkars80] TX not work

Hello SA2AWO [sorry you didn't give your name],
Have you got another receiver that can tune to 10 MHz?
If so you should be able to hear the SSB signal out of the
crystal filter. If you can't hear this then your fault is before
the filter, if you can then it's after the filter. Let us know your
findings and we can take it further.
73 Ken g8beq

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1798. Photos of my L-Match are now up for thoes that are interested

Yahoo group: mkars80
Date: 2010-09-06 13:10:37 UTC
From: Charley
Topic: 1798 Message: 1798

And also I used .8mm magnet wire not .63mm as stated earlier.
Charley
VK2ZYZ

1799. Small linear for MKARS80 ?

Yahoo group: mkars80
Date: 2010-09-09 21:53:35 UTC
From: G1IVG
Topic: 1799 Message: 1799

Hi all,

Although I have had great success with my MKARS80 on 5w, I fancy making a small amplifier like the "Fara HF Project" by WA1GPO. Has anyone here made a similar amplifier for their MKARS80?

Colin G1IVG

1800. Re: Small linear for MKARS80 ?

Yahoo group: mkars80
Date: 2010-09-10 01:31:00 UTC
From: Ken
Topic: 1799 Message: 1800

Hi Colin:
Thanks for your post. I have not built the specific amplifier
you mention, but it looks like a very nicely designed
project. I especially like it because it uses real RF transistors
instead of IRF-510 power MOSFETS used in the HF Packer
Amp (which runs them at a higher voltage for more power).
I have built the HF Packer Amp, but frankly
I think it is overpriced at about $250 USD. But maybe
you could buy the HF Packer amp modules separately???

HF Packer Group sells Low Pass Filter modules separately
as kits. The 50 watt module is the one used in the 35 watt
Packer amp, which uses a band switch directly wired to a
small PC board with all the coils & caps VERY close together.
But for only $5 more you can buy the 100w version,
which uses relays on a larger board instead:

http://www.hfprojectsyahoo.com/lowpassfilters.html

I have built that 100w LPF kit and use it with my
140w amp kit from CCI. It works very well.

Good luck with your project and for sharing
that old article with us. VERY nice looking
amp project

73, Ken AD6KA/5R8GQ

--- In mkars80@..., "G1IVG" <g1ivg@...> wrote:
>
> Hi all,
>
> Although I have had great success with my MKARS80 on 5w, I fancy making a small amplifier like the "Fara HF Project" by WA1GPO. Has anyone here made a similar amplifier for their MKARS80?
>
> Colin G1IVG
>

1801. Re: [mkars80] Small linear for MKARS80 ?

Yahoo group: mkars80
Date: 2010-09-11 07:24:10 UTC
From: Eric Söderman
Topic: 1799 Message: 1801

Hi,

You could check recent issues of QST from ARRL where 50 W amplifiers
has been described. You can also join the ARRLHBC yahoo group for more
information. Basically there are two designs, one low cost described
to be built "ugly" and another one with more features where the author
right now is designing a new PCB with SMD and he is now collecting
interest in kit or PCB purchases..

Eric SA5BKE

On Thu, Sep 9, 2010 at 11:53 PM, G1IVG <g1ivg@...> wrote:
> Although I have had great success with my MKARS80 on 5w, I fancy making a small amplifier like the "Fara HF Project" by WA1GPO. Has anyone here made a similar amplifier for their MKARS80?

1802. Re: Small linear for MKARS80 ?

Yahoo group: mkars80
Date: 2010-09-11 17:08:06 UTC
From: g4gcl
Topic: 1799 Message: 1802

Hi.

I would agree that the 50w amp in the June issue of QST which can be built for around $28 looks very good although obiously the price will work out a little different in the UK.

To keep the cost down it uses a CPU cooling fan! It's built for any single band which would be ideal for the MKARS80. As Eric says it's built ugly style but it can produce about 50w with 5w drive.

72/73,

John G4GCL
--- In mkars80@..., Eric Söderman <eric@...> wrote:
>
> Hi,
>
> You could check recent issues of QST from ARRL where 50 W amplifiers
> has been described. You can also join the ARRLHBC yahoo group for more
> information. Basically there are two designs, one low cost described
> to be built "ugly" and another one with more features where the author
> right now is designing a new PCB with SMD and he is now collecting
> interest in kit or PCB purchases..
>
> Eric SA5BKE
>
> On Thu, Sep 9, 2010 at 11:53 PM, G1IVG g1ivg@... wrote:
> > Although I have had great success with my MKARS80 on 5w, I fancy making a small amplifier like the "Fara HF Project" by WA1GPO. Has anyone here made a similar amplifier for their MKARS80?
>

1803. Re: [mkars80] Re: Small linear for MKARS80 ?

Yahoo group: mkars80
Date: 2010-09-11 19:08:05 UTC
From: G4DFV
Topic: 1799 Message: 1803

50w out for 5w drive? I guess that's roughly two S - points increase, everything else being equal.

Duncan G4DFV

[Non-text portions of this message have been removed]

1804. Re: Small linear for MKARS80 ?

Yahoo group: mkars80
Date: 2010-09-12 21:45:27 UTC
From: G1IVG
Topic: 1799 Message: 1804

Thanks for all the replies,

The QST article looks very nice, I had not come across that one.

I have also been sent a link to another design that has a single sided PCB with no SMT devices so is a little easier to build as I will have most parts available in my junk box :) Once built and tested I will let you all know how it goes.

It uses 2 x IRF510 devices and all fits on a single sided PCB 100mm x 70mm.

Regards
Colin G1IVG.

--- In mkars80@..., "G1IVG" <g1ivg@...> wrote:
>
> Hi all,
>
> Although I have had great success with my MKARS80 on 5w, I fancy making a small amplifier like the "Fara HF Project" by WA1GPO. Has anyone here made a similar amplifier for their MKARS80?
>
> Colin G1IVG
>

1806. Re: Small linear for MKARS80 ?

Yahoo group: mkars80
Date: 2010-09-12 22:07:12 UTC
From: G1IVG
Topic: 1799 Message: 1806

Here is the link I mentioned in my last message, it's for a small linear designed by Ron PA0RCL and I plan to make a start on building it this week. I will keep you all posted how it goes.

http://www.pa0rcl.com/PA0RCL/MKARS80_Linear_Amp.html

Regards
Colin
G1IVG

--- In mkars80@..., "G1IVG" <g1ivg@...> wrote:
>
> Hi all,
>
> Although I have had great success with my MKARS80 on 5w, I fancy making a small amplifier like the "Fara HF Project" by WA1GPO. Has anyone here made a similar amplifier for their MKARS80?
>
> Colin G1IVG
>

1807. Back light, and other mods

Yahoo group: mkars80
Date: 2010-09-15 07:22:52 UTC
From: pete.flair
Topic: 1807 Message: 1807

Hello all,
my first post here, just purchased a MKARS80 with the CW add on kit.
I intend to build my kits into a Maplin vinyl style box, using a air variable for tuning, with a vernier reduction. So far, so good, but I also like to back-light the LCD, to you how have all ready done this,
which display do you use? What other mods have been done, and recommended, a simple L tuner for just 80m, guess that will fir into the box as well. Pleas give me hints, ideas and links. Will be much appreciated.

7s, de
DU2/LA1NOA
Jogeir

1808. Re: Back light, and other mods

Yahoo group: mkars80
Date: 2010-09-15 08:54:27 UTC
From: Hasse
Topic: 1807 Message: 1808

Hello Jogeir !
May be i double this messege, but let´s go for that.I can tell you
that i used a display with a very bright blue background which light
up very well i must say.The name of this circuit is ATM1602B and the cost for this in Sweden is about 100 Swedish crowns.I don`t know if you have the store "Kjell and Company" in Norway but i think you can find this circuit in many electronic-part stores in your country.
Best 73 de SM6MPA/Hasse

--- In mkars80@..., "pete.flair" <jgrlindseth@...> wrote:
>
> Hello all,
> my first post here, just purchased a MKARS80 with the CW add on kit.
> I intend to build my kits into a Maplin vinyl style box, using a air variable for tuning, with a vernier reduction. So far, so good, but I also like to back-light the LCD, to you how have all ready done this,
> which display do you use? What other mods have been done, and recommended, a simple L tuner for just 80m, guess that will fir into the box as well. Pleas give me hints, ideas and links. Will be much appreciated.
>
> 7s, de
> DU2/LA1NOA
> Jogeir
>

1809. Re: Back light, and other mods

Yahoo group: mkars80
Date: 2010-09-15 09:11:19 UTC
From: Hasse
Topic: 1807 Message: 1809

Jogeir !
Ps. I forgot to tell you that i have pictures on this site in "photo albumes" Ds.
73 de Hasse

--- In mkars80@..., "pete.flair" <jgrlindseth@...> wrote:
>
> Hello all,
> my first post here, just purchased a MKARS80 with the CW add on kit.
> I intend to build my kits into a Maplin vinyl style box, using a air variable for tuning, with a vernier reduction. So far, so good, but I also like to back-light the LCD, to you how have all ready done this,
> which display do you use? What other mods have been done, and recommended, a simple L tuner for just 80m, guess that will fir into the box as well. Pleas give me hints, ideas and links. Will be much appreciated.
>
> 7s, de
> DU2/LA1NOA
> Jogeir
>

1810. Re: [mkars80] Back light, and other mods

Yahoo group: mkars80
Date: 2010-09-15 18:53:20 UTC
From: Steve Drury
Topic: 1807 Message: 1810

Jogeir,

I strongly advise you to first build the PCB as intended, this is to make sure it works OK first. Then please modify it as you wish!

Steve G6ALU

----- Original Message -----
From: "pete.flair" <jgrlindseth@...>
To: <mkars80@...>
Sent: Wednesday, September 15, 2010 8:22 AM
Subject: [mkars80] Back light, and other mods

> Hello all,
> my first post here, just purchased a MKARS80 with the CW add on kit.
> I intend to build my kits into a Maplin vinyl style box, using a air
> variable for tuning, with a vernier reduction. So far, so good, but I also
> like to back-light the LCD, to you how have all ready done this,
> which display do you use? What other mods have been done, and recommended,
> a simple L tuner for just 80m, guess that will fir into the box as well.
> Pleas give me hints, ideas and links. Will be much appreciated.
>
> 7s, de
> DU2/LA1NOA
> Jogeir
>
>
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> Yahoo! Groups Links
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1811. Re: Back light, and other mods

Yahoo group: mkars80
Date: 2010-09-16 17:01:15 UTC
From: pete.flair
Topic: 1807 Message: 1811

Hasse,
yes I can find many different LCDisplays from about Â£5 here in England.

Steve,
yes good advice for all to do it in that way, beginners, and experts alike.

I was hoping for more response coz, i can see that some of you did
build it in "not the original box". But I will figure out how to do it as the building goes on,
I am not a quick builder, like to take time to enjoy the project.

Like to here some response from those of you how have done the varicap mod,
Steve what do you think about using a varicap diode?

About my self, I am a Norwegian that partly live in the Philippines and partly
in London, now I am in London during the rainy season, so not have any workshop
here, but I have to do something hence this project.
Great value for the money, and good quality, compering to other kits
i have bought/build here in England.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Jogeir,
>
> I strongly advise you to first build the PCB as intended, this is to make
> sure it works OK first. Then please modify it as you wish!
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "pete.flair" <jgrlindseth@...>
> To: <mkars80@...>
> Sent: Wednesday, September 15, 2010 8:22 AM
> Subject: [mkars80] Back light, and other mods
>
>
> > Hello all,
> > my first post here, just purchased a MKARS80 with the CW add on kit.
> > I intend to build my kits into a Maplin vinyl style box, using a air
> > variable for tuning, with a vernier reduction. So far, so good, but I also
> > like to back-light the LCD, to you how have all ready done this,
> > which display do you use? What other mods have been done, and recommended,
> > a simple L tuner for just 80m, guess that will fir into the box as well.
> > Pleas give me hints, ideas and links. Will be much appreciated.
> >
> > 7s, de

> > DU2/LA1NOA
> > Jogeir
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> > Yahoo! Groups Links
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1812. Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-09-24 21:35:10 UTC
From: jrwdlw
Topic: 1812 Message: 1812

I finished construction of my MKARS80. It's working (I can hear stations), but the audio output is very low. The RF gain must be turned up to maximum to hear anything. I've tried both earphones and a speaker, with the same result. There is also a significant amount of hiss. So, my first attempt at trouble-shooting was to touch an un-connected test lead to various points in the circuit:

Touching pin 3 of the LM386 audio amp results in a 60hz like buzz, with loud scratchy noises.
Touching pin 2 of T5 causes a faint sharp pop, but no change in noise level.
Touching pin 6 of T5 causea a loud sharp pop, but no change in noise level.
Touching the junction of R57 and R58 does not change the noise level.
Touching the junction of D19 and D20 causes a huge increase in the noise level.
Touching the junction of D8 and C89 does not change the noise level.

Searching the user group, I saw someone suggest jumping the input to the output of the XTAL filter section. Using a jumper wire, I connected the junction of D19/20 to the junction of D8/C89. The "radio static" portion of the sound disappears, and there is only a soft, clear, hiss sound. I really didn't expect the sound level to drop. I then checked each XTAL to see that none are grounded. All pins have an infinite resistance to ground, except XTAL5 at D19, which measured 1.3 meg ohms. I would consider this to be ok.

My next step was to measure various transistors, and see if anything looks out of specification.

Here's what I found:

Emitter Base Collector
Expected Measured Expected Measured Expected Measured
Q3 0 0 0 0 0 0.01
Q6 0 0 0.65 0.64 0.65 0.65
Q7 0 0 0.39 0.44 2.20 1.98
Q8 0 0 0.57 0.55 2.20 2.05
Q11 3.6 3.8 3.6 3.64 7.5 7.46
Q12 3 3.34 3.65 3.94 7.5 7.46
Q13 4 3.53 4.65 4.15 9.4 8.48
Q16 3.9 4.31 4.1 4.39 7.2 7.12
Q18 4.2 4.383 4.3 4.431 7.2 7.12

I'm not sure how large of a variance is appropriate, but it looks like Q13 might be out of range.

I don't have a signal generator, frequency counter, or scope. What I have is "stone tools", and a DVM. So, can anyone suggest what I should try next?

Thanks,
John

1813. Re: [mkars80] Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-09-25 06:44:35 UTC
From: Steve Drury
Topic: 1812 Message: 1813

John,
I think all the transistor voltages look OK, your problem sounds very
typical of a bad connection on one of the mixer transformers.

Its worth carefully re-soldering the transformer connections with a HOT iron
to make sure the enamel has been burnt off.

Regards,
Steve G6ALU

----- Original Message -----
From: "jrwdlw" <jrwdlw@...>
To: <mkars80@...>
Sent: Friday, September 24, 2010 10:35 PM
Subject: [mkars80] Rx works, but audio is low

>I finished construction of my MKARS80. It's working (I can hear stations),
>but the audio output is very low. The RF gain must be turned up to maximum
>to hear anything. I've tried both earphones and a speaker, with the same
>result. There is also a significant amount of hiss. So, my first attempt
>at trouble-shooting was to touch an un-connected test lead to various
>points in the circuit:
>
> Touching pin 3 of the LM386 audio amp results in a 60hz like buzz, with
> loud scratchy noises.
> Touching pin 2 of T5 causes a faint sharp pop, but no change in noise
> level.
> Touching pin 6 of T5 causea a loud sharp pop, but no change in noise
> level.
> Touching the junction of R57 and R58 does not change the noise level.
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> level.
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>
> Searching the user group, I saw someone suggest jumping the input to the
> output of the XTAL filter section. Using a jumper wire, I connected the
> junction of D19/20 to the junction of D8/C89. The "radio static" portion
> of the sound disappears, and there is only a soft, clear, hiss sound. I
> really didn't expect the sound level to drop. I then checked each XTAL to
> see that none are grounded. All pins have an infinite resistance to
> ground, except XTAL5 at D19, which measured 1.3 meg ohms. I would
> consider this to be ok.
>
> My next step was to measure various transistors, and see if anything looks
> out of specification.
>

> Here's what I found:
>
> Emitter Base Collector
> Expected Measured Expected Measured Expected Measured
> Q3 0 0 0 0 0 0.01
> Q6 0 0 0.65 0.64 0.65 0.65
> Q7 0 0 0.39 0.44 2.20 1.98
> Q8 0 0 0.57 0.55 2.20 2.05
> Q11 3.6 3.8 3.6 3.64 7.5 7.46
> Q12 3 3.34 3.65 3.94 7.5 7.46
> Q13 4 3.53 4.65 4.15 9.4 8.48
> Q16 3.9 4.31 4.1 4.39 7.2 7.12
> Q18 4.2 4.383 4.3 4.431 7.2 7.12
>
> I'm not sure how large of a variance is appropriate, but it looks like Q13
> might be out of range.
>
> I don't have a signal generator, frequency counter, or scope. What I have
> is "stone tools", and a DVM. So, can anyone suggest what I should try
> next?
>
> Thanks,
> John
>
>
>
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> Yahoo! Groups Links
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1814. Re: [mkars80] Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-09-25 14:39:48 UTC
From: John Warner
Topic: 1812 Message: 1814

Steve,
I thought you were going to say that. I'm very new to understanding radio circuitry at the component level, so I want to confirm my assumptions. Looking at the schematic, T4 and T6 are VFO mixer transformers, and T5 is the BFO mixer transformer. Am I correct in assuming that I don't need to rework T1, T2, and T3, as they are some sort of output matching transformers?

I must say, that despite this minor issue, I'm having a lot of fun. I bought this kit to learn something at the circuitry level, so I'd say this problem is helping me reach my goal :)

John

From: Steve Drury <g6alu@...>
To: mkars80@yahoogroups.co.uk
Sent: Fri, September 24, 2010 11:44:35 PM
Subject: Re: [mkars80] Rx works, but audio is low

John,
I think all the transistor voltages look OK, your problem sounds very typical of a bad connection on one of the mixer transformers.

Its worth carefully re-soldering the transformer connections with a HOT iron to make sure the enamel has been burnt off.

Regards,
Steve G6ALU

----- Original Message -----
From: "jrwdlw" <jrwdlw@yahoo.com>
To: <mkars80@...>
Sent: Friday, September 24, 2010 10:35 PM
Subject: [mkars80] Rx works, but audio is low

>I finished construction of my MKARS80. It's working (I can hear stations),
>but the audio output is very low. The RF gain must be turned up to maximum
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>result. There is also a significant amount of hiss. So, my first attempt
>at trouble-shooting was to touch an un-connected test lead to various
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>
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> Touching pin 2 of T5 causes a faint sharp pop, but no change in noise
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> Touching pin 6 of T5 causea a loud sharp pop, but no change in noise

> level.
> Touching the junction of R57 and R58 does not change the noise level.
> Touching the junction of D19 and D20 causes a huge increase in the noise
> level.
> Touching the junction of D8 and C89 does not change the noise level.
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> Searching the user group, I saw someone suggest jumping the input to the
> output of the XTAL filter section. Using a jumper wire, I connected the
> junction of D19/20 to the junction of D8/C89. The "radio static" portion
> of the sound disappears, and there is only a soft, clear, hiss sound. I
> really didn't expect the sound level to drop. I then checked each XTAL to
> see that none are grounded. All pins have an infinite resistance to
> ground, except XTAL5 at D19, which measured 1.3 meg ohms. I would
> consider this to be ok.
>
> My next step was to measure various transistors, and see if anything looks
> out of specification.
>
> Here's what I found:
>
> Emitter Base Collector
> Expected Measured Expected Measured Expected Measured
> Q3 0 0 0 0 0 0.01
> Q6 0 0 0.65 0.64 0.65 0.65
> Q7 0 0 0.39 0.44 2.20 1.98
> Q8 0 0 0.57 0.55 2.20 2.05
> Q11 3.6 3.8 3.6 3.64 7.5 7.46
> Q12 3 3.34 3.65 3.94 7.5 7.46
> Q13 4 3.53 4.65 4.15 9.4 8.48
> Q16 3.9 4.31 4.1 4.39 7.2 7.12
> Q18 4.2 4.383 4.3 4.431 7.2 7.12
>
> I'm not sure how large of a variance is appropriate, but it looks like Q13
> might be out of range.
>
> I don't have a signal generator, frequency counter, or scope. What I have
> is "stone tools", and a DVM. So, can anyone suggest what I should try
> next?
>
> Thanks,
> John
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1815. Re: [mkars80] Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-09-25 14:54:46 UTC
From: Steve Drury
Topic: 1812 Message: 1815

John,

T1, 2 and 3 are in the TX path (does it TX?) so don't worry about these for receive. If the problem is with the mixer transformers you likely won't get any TX but if it does TX then the mixer transformers are probably OK.

Steve G6ALU

----- Original Message -----
From: "John Warner" <jrwdlw@...>
To: <mkars80@...>
Sent: Saturday, September 25, 2010 3:39 PM
Subject: Re: [mkars80] Rx works, but audio is low

> Steve,
> I thought you were going to say that. I'm very new to understanding radio
> circuitry at the component level, so I want to confirm my assumptions.
> Looking
> at the schematic, T4 and T6 are VFO mixer transformers, and T5 is the BFO
> mixer
> transformer. Am I correct in assuming that I don't need to rework T1, T2,
> and
> T3, as they are some sort of output matching transformers?
>
> I must say, that despite this minor issue, I'm having a lot of fun. I
> bought
> this kit to learn something at the circuitry level, so I'd say this
> problem is
> helping me reach my goal :)
>
> John
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> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Fri, September 24, 2010 11:44:35 PM
> Subject: Re: [mkars80] Rx works, but audio is low
>
>
> John,
> I think all the transistor voltages look OK, your problem sounds very

> typical of a bad connection on one of the mixer transformers.
>
> Its worth carefully re-soldering the transformer connections with a HOT
> iron
> to make sure the enamel has been burnt off.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "jrwdlw" <jrwdlw@...>
> To: <mkars80@...>
> Sent: Friday, September 24, 2010 10:35 PM
> Subject: [mkars80] Rx works, but audio is low
>
>>I finished construction of my MKARS80. It's working (I can hear
>>stations),
>>but the audio output is very low. The RF gain must be turned up to
>>maximum
>>to hear anything. I've tried both earphones and a speaker, with the same
>>result. There is also a significant amount of hiss. So, my first attempt
>>at trouble-shooting was to touch an un-connected test lead to various
>>points in the circuit:
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>> Touching pin 3 of the LM386 audio amp results in a 60hz like buzz, with
>> loud scratchy noises.
>> Touching pin 2 of T5 causes a faint sharp pop, but no change in noise
>> level.
>> Touching pin 6 of T5 causea a loud sharp pop, but no change in noise
>> level.
>> Touching the junction of R57 and R58 does not change the noise level.
>> Touching the junction of D19 and D20 causes a huge increase in the noise
>> level.
>> Touching the junction of D8 and C89 does not change the noise level.
>>
>> Searching the user group, I saw someone suggest jumping the input to the
>> output of the XTAL filter section. Using a jumper wire, I connected the
>> junction of D19/20 to the junction of D8/C89. The "radio static" portion
>> of the sound disappears, and there is only a soft, clear, hiss sound. I
>> really didn't expect the sound level to drop. I then checked each XTAL
>> to
>> see that none are grounded. All pins have an infinite resistance to
>> ground, except XTAL5 at D19, which measured 1.3 meg ohms. I would
>> consider this to be ok.
>>
>> My next step was to measure various transistors, and see if anything
>> looks
>> out of specification.
>>
>> Here's what I found:

>>
>> Emitter Base Collector
>> Expected Measured Expected Measured Expected Measured
>> Q3 0 0 0 0 0 0.01
>> Q6 0 0 0.65 0.64 0.65 0.65
>> Q7 0 0 0.39 0.44 2.20 1.98
>> Q8 0 0 0.57 0.55 2.20 2.05
>> Q11 3.6 3.8 3.6 3.64 7.5 7.46
>> Q12 3 3.34 3.65 3.94 7.5 7.46
>> Q13 4 3.53 4.65 4.15 9.4 8.48
>> Q16 3.9 4.31 4.1 4.39 7.2 7.12
>> Q18 4.2 4.383 4.3 4.431 7.2 7.12
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>> I'm not sure how large of a variance is appropriate, but it looks like
>> Q13
>> might be out of range.
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>> I don't have a signal generator, frequency counter, or scope. What I
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>> is "stone tools", and a DVM. So, can anyone suggest what I should try
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>> Thanks,
>> John
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1816. Re: [mkars80] Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-09-25 15:23:08 UTC
From: John Warner
Topic: 1812 Message: 1816

Steve,

Thanks for the fast response. I don't have a microphone yet (and no watt meter or scope), so I can't check out the TX side. I'm going to remove, continuity test, and re-solder mixer transformers.

John

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Sat, September 25, 2010 7:54:46 AM
Subject: Re: [mkars80] Rx works, but audio is low

John,

T1, 2 and 3 are in the TX path (does it TX?) so don't worry about these for receive. If the problem is with the mixer transformers you likely won't get any TX but if it does TX then the mixer transformers are probably OK.

Steve G6ALU

----- Original Message -----
From: "John Warner" <jrwdlw@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Saturday, September 25, 2010 3:39 PM
Subject: Re: [mkars80] Rx works, but audio is low

> Steve,
> I thought you were going to say that. I'm very new to understanding radio
> circuitry at the component level, so I want to confirm my assumptions.
> Looking
> at the schematic, T4 and T6 are VFO mixer transformers, and T5 is the BFO
> mixer
> transformer. Am I correct in assuming that I don't need to rework T1, T2,
> and
> T3, as they are some sort of output matching transformers?
>
> I must say, that despite this minor issue, I'm having a lot of fun. I
> bought
> this kit to learn something at the circuitry level, so I'd say this
> problem is
> helping me reach my goal :)
>
> John
>
>

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> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@yahoogroups.co.uk
> Sent: Fri, September 24, 2010 11:44:35 PM
> Subject: Re: [mkars80] Rx works, but audio is low
>
>
> John,
> I think all the transistor voltages look OK, your problem sounds very
> typical of a bad connection on one of the mixer transformers.
>
> Its worth carefully re-soldering the transformer connections with a HOT
> iron
> to make sure the enamel has been burnt off.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "jrwdlw" <jrwdlw@...>
> To: <mkars80@...>
> Sent: Friday, September 24, 2010 10:35 PM
> Subject: [mkars80] Rx works, but audio is low
>
>>I finished construction of my MKARS80. It's working (I can hear
>>stations),
>>but the audio output is very low. The RF gain must be turned up to
>>maximum
>>to hear anything. I've tried both earphones and a speaker, with the same
>>result. There is also a significant amount of hiss. So, my first attempt
>>at trouble-shooting was to touch an un-connected test lead to various
>>points in the circuit:
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>> Touching pin 3 of the LM386 audio amp results in a 60hz like buzz, with
>> loud scratchy noises.
>> Touching pin 2 of T5 causes a faint sharp pop, but no change in noise
>> level.
>> Touching pin 6 of T5 causea a loud sharp pop, but no change in noise
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>> Touching the junction of R57 and R58 does not change the noise level.
>> Touching the junction of D19 and D20 causes a huge increase in the noise
>> level.
>> Touching the junction of D8 and C89 does not change the noise level.
>>
>> Searching the user group, I saw someone suggest jumping the input to the
>> output of the XTAL filter section. Using a jumper wire, I connected the

>> junction of D19/20 to the junction of D8/C89. The "radio static" portion
>> of the sound disappears, and there is only a soft, clear, hiss sound. I
>> really didn't expect the sound level to drop. I then checked each XTAL
>> to
>> see that none are grounded. All pins have an infinite resistance to
>> ground, except XTAL5 at D19, which measured 1.3 meg ohms. I would
>> consider this to be ok.
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>> My next step was to measure various transistors, and see if anything
>> looks
>> out of specification.
>>
>> Here's what I found:
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>> Emitter Base Collector
>> Expected Measured Expected Measured Expected Measured
>> Q3 0 0 0 0 0 0.01
>> Q6 0 0 0.65 0.64 0.65 0.65
>> Q7 0 0 0.39 0.44 2.20 1.98
>> Q8 0 0 0.57 0.55 2.20 2.05
>> Q11 3.6 3.8 3.6 3.64 7.5 7.46
>> Q12 3 3.34 3.65 3.94 7.5 7.46
>> Q13 4 3.53 4.65 4.15 9.4 8.48
>> Q16 3.9 4.31 4.1 4.39 7.2 7.12
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>> I'm not sure how large of a variance is appropriate, but it looks like
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>> I don't have a signal generator, frequency counter, or scope. What I
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>> Thanks,
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[Non-text portions of this message have been removed]

1817. Re: [mkars80] Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-09-28 02:37:42 UTC
From: John Warner
Topic: 1812 Message: 1817

Steve,

Lot's of heat from a butane powered soldering iron, and the problem appears to be fixed. Thanks for the help, and thank you for a really nice radio kit. It's obvious that it took a huge amount of time and effort to bring this kit to market. I have just one complaint - where's my MKARS40 :)

John

From: Steve Drury <g6alu@tiscali.co.uk>
To: mkars80@...
Sent: Sat, September 25, 2010 7:54:46 AM
Subject: Re: [mkars80] Rx works, but audio is low

John,

T1, 2 and 3 are in the TX path (does it TX?) so don't worry about these for receive. If the problem is with the mixer transformers you likely won't get any TX but if it does TX then the mixer transformers are probably OK.

Steve G6ALU

----- Original Message -----
From: "John Warner" <jrwdlw@...m>
To: <mkars80@...>
Sent: Saturday, September 25, 2010 3:39 PM
Subject: Re: [mkars80] Rx works, but audio is low

> Steve,
> I thought you were going to say that. I'm very new to understanding radio
> circuitry at the component level, so I want to confirm my assumptions.
> Looking
> at the schematic, T4 and T6 are VFO mixer transformers, and T5 is the BFO
> mixer
> transformer. Am I correct in assuming that I don't need to rework T1, T2,
> and
> T3, as they are some sort of output matching transformers?
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> I must say, that despite this minor issue, I'm having a lot of fun. I
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> this kit to learn something at the circuitry level, so I'd say this
> problem is
> helping me reach my goal :)
>
> John
>

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> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Fri, September 24, 2010 11:44:35 PM
> Subject: Re: [mkars80] Rx works, but audio is low
>
>
> John,
> I think all the transistor voltages look OK, your problem sounds very
> typical of a bad connection on one of the mixer transformers.
>
> Its worth carefully re-soldering the transformer connections with a HOT
> iron
> to make sure the enamel has been burnt off.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "jrwdlw" <jrwdlw@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Friday, September 24, 2010 10:35 PM
> Subject: [mkars80] Rx works, but audio is low
>
>>I finished construction of my MKARS80. It's working (I can hear
>>stations),
>>but the audio output is very low. The RF gain must be turned up to
>>maximum
>>to hear anything. I've tried both earphones and a speaker, with the same
>>result. There is also a significant amount of hiss. So, my first attempt
>>at trouble-shooting was to touch an un-connected test lead to various
>>points in the circuit:
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>> Searching the user group, I saw someone suggest jumping the input to the

>> output of the XTAL filter section. Using a jumper wire, I connected the
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>> of the sound disappears, and there is only a soft, clear, hiss sound. I
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>> My next step was to measure various transistors, and see if anything
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>> out of specification.
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>> Expected Measured Expected Measured Expected Measured
>> Q3 0 0 0 0 0 0.01
>> Q6 0 0 0.65 0.64 0.65 0.65
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>> I'm not sure how large of a variance is appropriate, but it looks like
>> Q13
>> might be out of range.
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>> I don't have a signal generator, frequency counter, or scope. What I
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>> is "stone tools", and a DVM. So, can anyone suggest what I should try
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>> Thanks,
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1818. Re: [mkars80] Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-09-28 14:12:24 UTC
From: Ken Pendarvis
Topic: 1812 Message: 1818

A cold joint at one of the mixer transformers
tripped me up too, but again luckily it
was an easy fix that Steve spotted right
away.
>I have just one complaint - where's my MKARS40 :)
That would be fun!
Just don't buy the Hendricks MMR-40. Ridicuously
overpriced and at best a medicore performer. I was lucky
enough to get one as a "board and parts only" kit before
Hendricks Kits FORCED you to buy everything for USD $225.
I guess it was a fun build, but a 3 inch long brass screw
held in place by nuts soldered to a PC baord and
surrounded by a coil (Permeability Tuner Oscillator)
makes for a a sloppy, drifty VFO. And what brain trust
decided that the CW/SSB switch should go on the bottom
of a PC board inside an enclsoure?

Glad you got your MKARS80 running well.
I love mine! 73, Ken AD6KA/5R8GQ

----- Original Message -----
From: John Warner
To: mkars80@...
Sent: Monday, September 27, 2010 7:37 PM
Subject: Re: [mkars80] Rx works, but audio is low

Steve,

Lot's of heat from a butane powered soldering iron, and the problem appears to
be fixed. Thanks for the help, and thank you for a really nice radio kit. It's
obvious that it took a huge amount of time and effort to bring this kit to
market. I have just one complaint - where's my MKARS40 :)

John

_____
From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Sat, September 25, 2010 7:54:46 AM
Subject: Re: [mkars80] Rx works, but audio is low

John,

T1, 2 and 3 are in the TX path (does it TX?) so don't worry about these for
receive. If the problem is with the mixer transformers you likely won't get
any TX but if it does TX then the mixer transformers are probably OK.

Steve G6ALU

----- Original Message -----
From: "John Warner" <jrwdlw@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Saturday, September 25, 2010 3:39 PM
Subject: Re: [mkars80] Rx works, but audio is low

> Steve,
> I thought you were going to say that. I'm very new to understanding radio
> circuitry at the component level, so I want to confirm my assumptions.
> Looking
> at the schematic, T4 and T6 are VFO mixer transformers, and T5 is the BFO
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> transformer. Am I correct in assuming that I don't need to rework T1, T2,
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> I must say, that despite this minor issue, I'm having a lot of fun. I
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> this kit to learn something at the circuitry level, so I'd say this
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> John
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> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Fri, September 24, 2010 11:44:35 PM
> Subject: Re: [mkars80] Rx works, but audio is low
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>
> John,
> I think all the transistor voltages look OK, your problem sounds very
> typical of a bad connection on one of the mixer transformers.
>
> Its worth carefully re-soldering the transformer connections with a HOT
> iron
> to make sure the enamel has been burnt off.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "jrwdlw" <jrwdlw@...>
> To: <mkars80@...>

> Sent: Friday, September 24, 2010 10:35 PM
> Subject: [mkars80] Rx works, but audio is low
>
>>I finished construction of my MKARS80. It's working (I can hear
>>stations),
>>but the audio output is very low. The RF gain must be turned up to
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>> Expected Measured Expected Measured Expected Measured
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>> Q6 0 0 0.65 0.64 0.65 0.65
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>> Q16 3.9 4.31 4.1 4.39 7.2 7.12
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>> I'm not sure how large of a variance is appropriate, but it looks like
>> Q13
>> might be out of range.
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>> I don't have a signal generator, frequency counter, or scope. What I
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>> Thanks,
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1819. Re: [mkars80] Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-09-24 23:09:07 UTC
From: K.Greenough
Topic: 1812 Message: 1819

Hello John,
I had quite a time trying to find out why the audio level
on my MKRS80 was low and I followed a few false leads
until I discovered that the BFO injection level was low.
In my case I had made a poor solder joint on Q16.
I would check the BFO and T5. As you are hearing signals
it sound as if the filter is OK. [I played around with this
for ages, but it was a false trail hi]. You have a DVM, a
capacitor, say 1000pf, and a diode will make a RF probe.
The capacitor and the diode are wired in series. The free
end of the capacitor is your probe, the free end of the diode
goes to ground [PCB ground]. Your DVM is connected
across the diode. This will allow you to check that there is
RF on the emitter of Q18 and a higher level on the emitter of
Q16. You can also use this probe to check the VFO and
Buffer [Q13] . If your frequency display is OK then the VFO
must be working but this takes it's signal before Q13. Your
probe should show a higher level of RF on Q13 collector than
on it's base.
Hope this helps, 73 Ken g8beq
PS the diode needs to be a signal type, germanium or schottky
will give better sensitivity but a silicon type will work.

[Non-text portions of this message have been removed]

1820. Re: [mkars80] Rx works, but audio is low

Yahoo group: mkars80
Date: 2010-10-01 06:17:51 UTC
From: K.Greenough
Topic: 1812 Message: 1820

Hello John,
My last mail, for some reason, took over a week to appear
so it's well out of date as I know you've solved your problem.
73 Ken g8beq

[Non-text portions of this message have been removed]

1821. Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-01 14:39:37 UTC
From: John Warner
Topic: 1812 Message: 1821

I'm trying to use the varactor tuning setup shown in the drawing posted by VE3XJ dated 23Aug08. It's the one using the MVAM109 and 2-pole 4-position switch. I'm using an NTE618, as that is what Mouser had in stock. It's working (the frequency changes), but the tuning range is very limited. Measuring the voltage off the precision pot wiper, it varies from .001 to 7.98v. However, the tuning range is only 4.150 MHz to 4.160 MHz. Adjusting C38 moves the tuning range around, but does not increase it. I have the cathode connected to C47, and the anode connected to ground, so it's not installed backwards. Any ideas on what I might have done wrong?

Thanks
John

From: K.Greenough <g0wbm@talktalk.net>
To: mkars80@...
Sent: Thu, September 30, 2010 11:17:51 PM
Subject: Re: [mkars80] Rx works, but audio is low

Hello John,
My last mail, for some reason, took over a week to appear
so it's well out of date as I know you've solved your problem.
73 Ken g8beq

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1822. Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-01 15:00:21 UTC
From: Charles Cook
Topic: 1812 Message: 1822

Hi John
The following link to Lens pages relating to the BITX20 may be of help

http://golddredgervideo.com/bitx20/vfomod.pdf

Also an extract from a recent post from that Group

> .... there is a varicap made by Toshiba called the 1SV-149 that was used in portable AM radio service and designed to have a c1v to c8v capacitance range of 19pfd to 425pfd ! This is what I use in my Bitx20a with a single 10 turn precision pot. There is NO NEED for a fine tuning pot and I can cover 14.050Mhz to 14.350 Mhz with this one varicap. I use the spare hole for a Mic gain pot. I have the schematic and parts source if anyone is interested...
>
Thats the equivalent replacement of the MVAM108 and 109.......currently on ebay for about $14.00.

73 de Charles

_____
This email has been scanned by Netintelligence
http://www.netintelligence.com/email

[Non-text portions of this message have been removed]

1823. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-01 19:33:02 UTC
From: K.Greenough
Topic: 1812 Message: 1823

Hello John,
Removing C45, or reducing it's value from the present 100pF
will give a greater tuning range. Also you can use a LED as
a varicap diode, see Hans Summers site www.hanssummers.com
for lots of info on this.
73 Ken g8beq

[Non-text portions of this message have been removed]

1824. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-01 19:37:31 UTC
From: K.Greenough
Topic: 1812 Message: 1824

I forgot to say that if you remove C45 you will need
to add some turns to the VFO coil.
73 Ken g8beq

[Non-text portions of this message have been removed]

1825. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-01 19:47:37 UTC
From: K.Greenough
Topic: 1812 Message: 1825

And I also suspect that you might need to reduce C46
if you carry out the earlier mentioned mod's or the
"huff puff" control might be too strong.
73 Ken
Hopefully I haven't forgotten anything else.

[Non-text portions of this message have been removed]

1826. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-02 03:55:23 UTC
From: John Warner
Topic: 1812 Message: 1826

Ken,

Thanks for the reply on this issue, as well as the low audio problem. That RF probe looks helpful. I'm going to have to put one together.

I don't understand why I'm having a problem with the varactor tuning mod. The circuit and instructions are simple and straightforward. Technically it's working, I just don't have any range. Here are the switch positions, pot setting, voltage readings, and frequencies:

1 High 7.98v 4.160.340 Mhz
1 Low 5.94v 4.159.200 Mhz
2 High 5.93v 4.159.225 Mhz
2 Low 3.93v 4.157.830 Mhz
3 High 3.96v 4.157.845 Mhz
3 Low 1.98v 4.156.065 Mhz
4 High 1.97v 4.156.065 Mhz
4 Low .001v 4.150.465 Mhz

As you can see, I get only about 10 Khz of tuning range. Since I need to order some other components, I might try again with a different varactor.

John

From: K.Greenough <g0wbm@...>
To: mkars80@...
Sent: Fri, October 1, 2010 12:47:37 PM
Subject: Re: [mkars80] Varactor Tuning Problem

And I also suspect that you might need to reduce C46
if you carry out the earlier mentioned mod's or the
"huff puff" control might be too strong.
73 Ken
Hopefully I haven't forgotten anything else.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1827. Re: [mkars80] Rx works, but audio is low - now re MMR-40

Yahoo group: mkars80
Date: 2010-10-03 14:29:15 UTC
From: Steve Bell
Topic: 1812 Message: 1827

An interesting comment on the MMR-40 Ken.

I've been slowly collecting components for this for some time, my next build to be the MMR-40 as detailed here http://kd1jv.qrpradio.com/ARRLHBC/ARRL_MMR40.html . I wasn't over happy with the PTO, worrying it would slacken in use. Another issue was I sourced a no. 6 brass screw and nut here in the UK, but would have had to order the threaded hex nylon spacer from the USA, postage costing many many times its value. As time progressed I considered replacing the MMR-40's VFO. My question is, was its poor performance for you just related the PTO based VFO and the SSB/CW switch position? My other issue was I could never join the MMR-40 Yahoo group, it's either died or has been abandoned by its owner. Completely different from this great group that is always here when someone has problems. Apologies for being off topic re this non MKARS80 issue.

Steve 2E0SGB

On 28 Sep 2010, at 15:12, Ken Pendarvis wrote:

> A cold joint at one of the mixer transformers
> tripped me up too, but again luckily it
> was an easy fix that Steve spotted right
> away.
> >I have just one complaint - where's my MKARS40 :)
> That would be fun!
> Just don't buy the Hendricks MMR-40. Ridicuously
> overpriced and at best a medicore performer. I was lucky
> enough to get one as a "board and parts only" kit before
> Hendricks Kits FORCED you to buy everything for USD $225.
> I guess it was a fun build, but a 3 inch long brass screw
> held in place by nuts soldered to a PC baord and
> surrounded by a coil (Permeability Tuner Oscillator)
> makes for a a sloppy, drifty VFO. And what brain trust
> decided that the CW/SSB switch should go on the bottom
> of a PC board inside an enclsoure?
>
> Glad you got your MKARS80 running well.
> I love mine! 73, Ken AD6KA/5R8GQ
>

1828. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-03 21:28:45 UTC
From: K.Greenough
Topic: 1812 Message: 1828

Hello John,
Sorry if this is obvious but have you checked the tuning voltage actually on the varicap diode ? , I am wondering if you have it connected wrong way round.
73 Ken g8beq.

[Non-text portions of this message have been removed]

1829. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-04 01:37:33 UTC
From: John Warner
Topic: 1812 Message: 1829

Ken,

Thank you for asking the question Ken, as it is not obvious to me. I don't really know much about component level radio circuits.

I measured from ground, to where the wiper of the precision pot connects to the junction of the 100nf capacitor and 1Meg resistor. I'm pretty sure I have it installed correctly, but would like to confirm it. Where should I measure, and what should I expect?

Thanks
John

From: K.Greenough <g0wbm@...>
To: mkars80@...
Sent: Sun, October 3, 2010 2:28:45 PM
Subject: Re: [mkars80] Varactor Tuning Problem

Hello John,
Sorry if this is obvious but have you checked the tuning voltage actually on the varicap diode ? , I am wondering if you have it connected wrong way round.
73 Ken g8beq.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1830. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-04 07:30:04 UTC
From: Peter Fraser
Topic: 1812 Message: 1830

Hi John

With a digital multimeter measure from cathode to anode on the varactor.

You should see similar voltages to those seen on the wiper of the pot.

73
Peter VK3ZPF

----- Original Message -----
From: John Warner
To: mkars80@...
Sent: Monday, October 04, 2010 12:37 PM
Subject: Re: [mkars80] Varactor Tuning Problem

Ken,

Thank you for asking the question Ken, as it is not obvious to me. I don't really know much about component level radio circuits.

I measured from ground, to where the wiper of the precision pot connects to the junction of the 100nf capacitor and 1Meg resistor. I'm pretty sure I have it installed correctly, but would like to confirm it. Where should I measure, and what should I expect?

Thanks
John

From: K.Greenough <g0wbm@...>
To: mkars80@...
Sent: Sun, October 3, 2010 2:28:45 PM
Subject: Re: [mkars80] Varactor Tuning Problem

Hello John,
Sorry if this is obvious but have you checked the tuning
voltage actually on the varicap diode ? , I am wondering
if you have it connected wrong way round.
73 Ken g8beq.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1831. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-04 08:29:28 UTC
From: K.Greenough
Topic: 1812 Message: 1831

Hello John,
As Peter says, measure across the diode, you need a high
impedance meter, usually 10M ohm as the diode is being
fed via a 1M ohm resistor. If the diode is the wrong way round
it will conduct and you will see about 0.6 volts across it [assuming
it's silicon] which will hardly vary at all when you adjust the pot.
If the voltage across the diode varies the same as that on the pot wiper
then the diode is correctly wired but if not producing any more than
the 10KHz swing you have then it's either faulty, or a VHF type with a
small capacitance change or the series cap' is faulty.
73 Ken g8beq

[Non-text portions of this message have been removed]

1832. Re: [mkars80] Rx works, but audio is low - now re MMR-40

Yahoo group: mkars80
Date: 2010-10-04 19:16:00 UTC
From: Ken Pendarvis
Topic: 1812 Message: 1832

Hi Steve:
Sorry for the late reply to your question
>My question is, was its poor performance for you just related
>the PTO based VFO and the SSB/CW switch position?

No, not at all. Those were not the sole reasons.
In my experience the MMR-40 has a mediocre receiver.
I only hear strong stations, both on CW and SSB.
Receiver is nowhere near as sensitive as the MKARS80
or the BITX20A. The entire setup and tuning is awkward
and a hassle, not just the PTO screw and associated coils.
(Which I had to to adjust by changing number
of turns, padding with caps...by experimentation
with different values before I got the BFO in range.
I do not have a scope or signal generator (which they say
are "extremely helpful) but I do have a lot of QRP kit
construction experience. And it is it's an unpleasant chore
to solder three brass nuts to a PC board so they are *exactly*
in line. If they aren't, will "freeze up" at a certain point, usually
in the middle of the operating range.
In fairness, I built this Hendricks rig when it
first came out, and thy were offering 'board and parts only'
versions. Maybe they've made improvements and changes.
Hope this helps, 73, Ken Ad6KA/5R8GQ

----- Original Message -----
From: Steve Bell
To: mkars80@...
Sent: Sunday, October 03, 2010 7:29 AM
Subject: Re: [mkars80] Rx works, but audio is low - now re MMR-40

An interesting comment on the MMR-40 Ken.

I've been slowly collecting components for this for some time, my next
build to be the MMR-40 as detailed here http://kd1jv.qrpradio.com/ARRLHBC/ARRL_MMR40.html
. I wasn't over happy with the PTO, worrying it would slacken in use.
Another issue was I sourced a no. 6 brass screw and nut here in the
UK, but would have had to order the threaded hex nylon spacer from the
USA, postage costing many many times its value. As time progressed I
considered replacing the MMR-40's VFO. My question is, was its poor
performance for you just related the PTO based VFO and the SSB/CW
switch position? My other issue was I could never join the MMR-40
Yahoo group, it's either died or has been abandoned by its owner.
Completely different from this great group that is always here when
someone has problems. Apologies for being off topic re this non
MKARS80 issue.

Steve 2E0SGB

On 28 Sep 2010, at 15:12, Ken Pendarvis wrote:

> A cold joint at one of the mixer transformers
> tripped me up too, but again luckily it
> was an easy fix that Steve spotted right
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> makes for a a sloppy, drifty VFO. And what brain trust
> decided that the CW/SSB switch should go on the bottom
> of a PC board inside an enclsoure?
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> Glad you got your MKARS80 running well.
> I love mine! 73, Ken AD6KA/5R8GQ
>

[Non-text portions of this message have been removed]

1833. Re: [mkars80] Rx works, but audio is low - now re MMR-40

Yahoo group: mkars80
Date: 2010-10-04 20:10:31 UTC
From: Dean Davis
Topic: 1812 Message: 1833

Ken,

You may want to try the Norcal FCC1/FCC2 combo. I understand this works terrific as a replacement VFO

Normal
0

false
false
false

MicrosoftInternetExplorer4

Dean

From: "Ken Pendarvis" <kenp@...>
Sent: Monday, October 04, 2010 12:22 PM
To: mkars80@...
Subject: Re: [mkars80] Rx works, but audio is low - now re MMR-40

Hi Steve:
Sorry for the late reply to your question
>My question is, was its poor performance for you just related
>the PTO based VFO and the SSB/CW switch position?

No, not at all. Those were not the sole reasons.
In my experience the MMR-40 has a mediocre receiver.
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I do not have a scope or signal generator (which they say
are "extremely helpful) but I do have a lot of QRP kit
construction experience. And it is it's an unpleasant chore
to solder three brass nuts to a PC board so they are *exactly*
in line. If they aren't, will "freeze up" at a certain point, usually
in the middle of the operating range.
In fairness, I built this Hendricks rig when it
first came out, and thy were offering 'board and parts only'
versions. Maybe they've made improvements and changes.
Hope this helps, 73, Ken Ad6KA/5R8GQ

----- Original Message -----
From: Steve Bell
To: mkars80@...
Sent: Sunday, October 03, 2010 7:29 AM
Subject: Re: [mkars80] Rx works, but audio is low - now re MMR-40

An interesting comment on the MMR-40 Ken.

I've been slowly collecting components for this for some time, my next build to be the MMR-40 as detailed here http://kd1jv.qrpradio.com/ARRLHBC/ARRL_MMR40.html . I wasn't over happy with the PTO, worrying it would slacken in use. Another issue was I sourced a no. 6 brass screw and nut here in the UK, but would have had to order the threaded hex nylon spacer from the USA, postage costing many many times its value. As time progressed I considered replacing the MMR-40's VFO. My question is, was its poor performance for you just related the PTO based VFO and the SSB/CW switch position? My other issue was I could never join the MMR-40 Yahoo group, it's either died or has been abandoned by its owner. Completely different from this great group that is always here when someone has problems. Apologies for being off topic re this non MKARS80 issue.

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> Glad you got your MKARS80 running well.
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>

[Non-text portions of this message have been removed]

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1834. Re: [mkars80] Rx works, but audio is low - now re MMR-40

Yahoo group: mkars80
Date: 2010-10-04 22:54:09 UTC
From: Ken Pendarvis
Topic: 1812 Message: 1834

Thanks Dean:

An external VFO might be just the ticket.
And maybe something I've overlooked is
causing the disapointing receive sensitvity.
When I get some extra time I will go over
my MMR40 more carefully. I bought it because
I liked the idea of both CW and SSB in monoband
QRP rig.

If there are any MMR-40 experts out there who
would like to give mine a going over I'd very
much appreciate it.

The best monoband 40m SSB QRP kit rig I've ever used
is the Small Wonder Labs White Mountain 40. But that
series was discontinued over a decade ago.

Apologies for hijacking the thread!!!
73, Ken AD6KA/5R8GQ

----- Original Message -----
From: Dean Davis
To: mkars80@...
Sent: Monday, October 04, 2010 1:10 PM
Subject: Re: [mkars80] Rx works, but audio is low - now re MMR-40

Ken,

You may want to try the Norcal FCC1/FCC2 combo. I understand this works terrific as a replacement VFO

Normal
0

false
false
false

MicrosoftInternetExplorer4

Dean

From: "Ken Pendarvis" <kenp@...>
Sent: Monday, October 04, 2010 12:22 PM
To: mkars80@...
Subject: Re: [mkars80] Rx works, but audio is low - now re MMR-40

Hi Steve:
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first came out, and thy were offering 'board and parts only'
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Hope this helps, 73, Ken Ad6KA/5R8GQ

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From: Steve Bell
To: mkars80@...
Sent: Sunday, October 03, 2010 7:29 AM
Subject: Re: [mkars80] Rx works, but audio is low - now re MMR-40

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Completely different from this great group that is always here when
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MKARS80 issue.

Steve 2E0SGB

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> was an easy fix that Steve spotted right
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> Glad you got your MKARS80 running well.
> I love mine! 73, Ken AD6KA/5R8GQ
>

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1835. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-10 03:31:57 UTC
From: John Warner
Topic: 1812 Message: 1835

Ken and Peter,

I didn't get to try your suggestions until last night. I checked the voltage across the varactor, and it varied from about .1v to .25v. Your comments prompted me to try reversing it in the circuit. I had the varactor, capacitor, and resistor soldered as a single assembly. I reversed the assembly, and measured again. The circuit was acting extremely strange, with the displayed frequency varying widely, from 4Mhz to 9.9Mhz. Frustrated, I gave up. Later that night, I realized that I had reversed the entire assembly, which meant the capacitor and resistor were connected incorrectly. So, this morning I tried everything again, with new parts. Same problem, the wiper voltage varies from 0v to 8v, but the varactor voltage from 1v to .25v. Next, I reversed the varactor. Everything worked perfectly.

Now, here's the really interesting part of the story. The manufacture's packaging, and data sheet, are incorrect in how they identify the anode and cathode of the varactor. The varactor (NTE618) comes individually packaged, with the specifications, and a picture identifying the anode and cathode printed on the plastic bag. The plastic bag is a little ambiguous, but the data sheet has a different view of the part, and it is perfectly clear regarding the correct orientation. According to the data sheet, I have the anode connected to C47, and the cathode (K) connected to ground, and yet it works.

Thanks so much for your help and suggestions, I doubt I would have ever tried reversing the part, unless you had described the symptoms. Especially since the data sheet, and VE3XJ schematic indicate that I had it installed correctly.

John

From: K.Greenough <g0wbm@...>
To: mkars80@yahoogroups.co.uk
Sent: Mon, October 4, 2010 1:29:28 AM
Subject: Re: [mkars80] Varactor Tuning Problem

Hello John,
As Peter says, measure across the diode, you need a high
impedance meter, usually 10M ohm as the diode is being
fed via a 1M ohm resistor. If the diode is the wrong way round
it will conduct and you will see about 0.6 volts across it [assuming
it's silicon] which will hardly vary at all when you adjust the pot.
If the voltage across the diode varies the same as that on the pot wiper
then the diode is correctly wired but if not producing any more than
the 10KHz swing you have then it's either faulty, or a VHF type with a
small capacitance change or the series cap' is faulty.
73 Ken g8beq

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1836. Re: [mkars80] Varactor Tuning Problem

Yahoo group: mkars80
Date: 2010-10-10 10:43:07 UTC
From: K.Greenough
Topic: 1812 Message: 1836

Hello John,
I'm pleased to hear that all is working OK now, strange
for the data sheet to show the connections wrongly but
these things do happen hi. I usually check transistors,
diodes etc before I put them into circuit, saves trouble
shooting when it's the part that's duff. I recently ordered
some driver transistors from Icom UK, I fitted them into
a set I was repairing and they worked OK, the owner of
the set collected it and then telephoned to say that he had
no output. The transistors had blown and yet on checking
the DC conditions there was nothing wrong [I suspect that
the transistors had a high Hfe and had taken off and destroyed
themselves], they were very expensive, just under ?100 for
the pair. I saw some advertised on Ebay, from Hong Kong, a
lot cheaper so I ordered some.When they arrived [and this is
the point of this narative] I checked them and found that the
lead outs were wrong, they were stamped up as Mitsubishi
but were obviously not. I got my money back but if I'd just fitted
the transistors I'd have put a short across the supply line with,
no doubt, a lot of damage. As an end to this story I found a
supplier in Ireland who had the transistors at a third of Icom's price,
I fitted these and the set has been OK for a few months now.
It pays to check hi. Good DX with your MKARS80, it's a very
nice transceiver and a fantastic bargain.
73 Ken g8beq

[Non-text portions of this message have been removed]

1837. Re: Mounting Controls & Display Off PC Board

Yahoo group: mkars80
Date: 2010-10-14 18:30:15 UTC
From: Dean
Topic: 1779 Message: 1837

Ken,

Did you ever get any response to your questions?

I am looking at doing the same thing, except I would like to replace the var-cap in favor or varactor tuning.

I already have a case in mind the will have enough room for the MKARS80, CW adapter, battery, charger, etc.

I am looking for a replacement for the LCD, one that is back-lit.

Dean, N7XG

--- In mkars80@yahoogroups.co.uk, "Ken" <kenp@...> wrote:
>
>
> Hi: I was in an electronics shop downtown today and saw some very nice
> alternative enclosures for the MKARS80 kit. Found some very nice
> colorful backlit 1602 type backlit LCD displays as well. Nothing wrong
> with the enclosure that came with the kit of course. But I like the
> performance of the basic unit so much that I would like to use the
> MKARS basic board as part of a larger "transceiver project" with more
> features. I plan lto add the CW Adapter Kit, possibly a small digital
> playback chip for "Auto CQ", and a small PWR/SWR meter. I may even
> convert that crankey Ramsey 20m 20 watt amp I have to 80m (just swap out
> the LPF) and add that, though I would not be able to use it for full
> break in or semi break in CW, just SSB. Anyway...
>
> What effect does remote mounting VR1, VR2 and the tuning polyvaricon
> have on performance? I can see where there might be a problem with the
> polyvaricon being hooked up off the board and picking up stray RFI
> and/or having tuning effects on the VFO circuit. I would use high
> quality, well shielded small coax like RG-316 for the to-board
> connections for the polyvaricon, and all internal RF connections, maybe
> even audio as well. I don't see any problems at all with mounting the
> digital display several inches away. (Found some very nice colorful
> backlit 16 x 2 LCD displays as well)
>
> Has anyone mounted these three controls offf of the board?
>
> What was your experience and can you offer any tips?
> tnx es 73, Ken AD6KA/5R8GQ
>
>
>

>
>
> [Non-text portions of this message have been removed]
>

1838. Selling my MKARS80, CW kit

Yahoo group: mkars80
Date: 2010-10-15 11:57:55 UTC
From: Pete
Topic: 1838 Message: 1838

Moving to a new location and I do not have any space for a 80 antenna any more I am selling my MKARS80 and CW kit, as new.
Nothing build yet.
Selling it for £60.00 + p&p

jgrlindseth@...

Regs
Jogeir Lindseth

1839. Re: Mounting Controls & Display Off PC Board

Yahoo group: mkars80
Date: 2010-10-15 23:50:16 UTC
From: Jonathan point
Topic: 1779 Message: 1839

Ken/Dean,

*** The huff 'n' puff circuit has a limited range, as well as a long time-constant. Quick changes in frequency, caused by vibration - or even the TX relay - will render the circuit incapable of holding lock with nearly any remote-mounting ***

Remote mounting the tuning cap will cause untold stability issues IME - don't do it - do the varicap tuning mod (under "files" in this group). If you extended it with coax, you'd find the tuning range restricted somewhat by the coax capacitance, but ANY movement at all of the coax would retune the radio!

If you used stiff wires, the TX will couple into it and it will take off - as well as being annoyingly unstable :-(

>> If you use a 10-turn pot with the varicap mod, you can dispense with the fine tune control if you use a large knob. I actually use the capacitor on-board with a 10:1 reduction drive and replaced the fine tune pot with a push-button for the backlight. <<

The RF gain pot can be removed from the PCB and mounted on a bracket at right-angles to it. Just keep the leads really short (<1 inch). The Fine Tune pot can be remotely-mounted with no issues, but keep the wiring away from the PA stage.

Backlit LCDs are readily available and can be mounted away from the PCB - but keep the wires away from the LPF & front end (and RF gain pot) or you can get noise. In fact, my backlit LCD couldn't be mounted on the PCB, as it would have displayed upside-down! I have short pieces of ribbon cable - about 2" long on mine, allowing me to mount it from the chassis.

Best of luck and don't forget to post photos of your mods!

Regards,

Jon Point
VK2JDP

--- In mkars80@yahoogroups.co.uk, "Dean" <dean@...> wrote:
>
> Ken,
>
> Did you ever get any response to your questions?
>
> I am looking at doing the same thing, except I would like to replace the var-cap in favor or varactor tuning.
>
> I already have a case in mind the will have enough room for the MKARS80, CW adapter, battery, charger, etc.
>

> I am looking for a replacement for the LCD, one that is back-lit.
>
> Dean, N7XG
>
> --- In mkars80@....uk, "Ken" <kenp@> wrote:
> >
> >
> > Hi: I was in an electronics shop downtown today and saw some very nice
> > alternative enclosures for the MKARS80 kit. Found some very nice
> > colorful backlit 1602 type backlit LCD displays as well. Nothing wrong
> > with the enclosure that came with the kit of course. But I like the
> > performance of the basic unit so much that I would like to use the
> > MKARS basic board as part of a larger "transceiver project" with more
> > features. I plan lto add the CW Adapter Kit, possibly a small digital
> > playback chip for "Auto CQ", and a small PWR/SWR meter. I may even
> > convert that crankey Ramsey 20m 20 watt amp I have to 80m (just swap out
> > the LPF) and add that, though I would not be able to use it for full
> > break in or semi break in CW, just SSB. Anyway...
> >
> > What effect does remote mounting VR1, VR2 and the tuning polyvaricon
> > have on performance? I can see where there might be a problem with the
> > polyvaricon being hooked up off the board and picking up stray RFI
> > and/or having tuning effects on the VFO circuit. I would use high
> > quality, well shielded small coax like RG-316 for the to-board
> > connections for the polyvaricon, and all internal RF connections, maybe
> > even audio as well. I don't see any problems at all with mounting the
> > digital display several inches away. (Found some very nice colorful
> > backlit 16 x 2 LCD displays as well)
> >
> > Has anyone mounted these three controls offf of the board?
> >
> > What was your experience and can you offer any tips?
> > tnx es 73, Ken AD6KA/5R8GQ
> >
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> >
> > [Non-text portions of this message have been removed]
> >
>

1840. High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-16 14:38:58 UTC
From: jrwdlw
Topic: 1840 Message: 1840

I'm trying to adjust the PA bias current. R2 is set to the minimum. LCD says 14.5v. Receive current is 128ma. Transmit current with no microphone (I grounded Relay1/D6) is 626ma. The LED lights, and there is quite an increase in the level of output from the speaker (clicking that I believe is caused by the LCD). If I have the microphone connected, there is loud feedback.

Any suggestions?

Thanks
John

1841. Re: [mkars80] High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-16 15:22:21 UTC
From: Steve Drury
Topic: 1840 Message: 1841

John,

With R2 set to minimum I would expect the TX current to be around 280mA with 14.5V supply and no modulation. Have you adjusted the mixer ballance - R59 / C103 as per the instructions?

Steve G6ALU

----- Original Message -----
From: "jrwdlw" <jrwdlw@...>
To: <mkars80@...>
Sent: Saturday, October 16, 2010 3:38 PM
Subject: [mkars80] High current before adjust PA bias

> I'm trying to adjust the PA bias current. R2 is set to the minimum. LCD
> says 14.5v. Receive current is 128ma. Transmit current with no
> microphone (I grounded Relay1/D6) is 626ma. The LED lights, and there is
> quite an increase in the level of output from the speaker (clicking that I
> believe is caused by the LCD). If I have the microphone connected, there
> is loud feedback.
>
> Any suggestions?
>
> Thanks
> John
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> Yahoo! Groups Links
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1842. Re: [mkars80] Re: Mounting Controls & Display Off PC Board

Yahoo group: mkars80
Date: 2010-10-16 15:27:52 UTC
From: Steve Drury
Topic: 1779 Message: 1842

Here is my input....

Fine tune
Should be no problem fitting control remotely, perhaps best to use screened lead though.

Polyvaricon
You will have to use screened lead which may affect the stability and the added capacitance might cause a problem. A Dutch amateur (sorry I can't remember who) simply rotated the Polyvaricon 90? to the PCB and mounted it on some brackets, the shaft was then extended to the front of the radio.

RF Gain
Use thin coax and you shouldn't have a problem

Display
Use ribbon cable, you may experience some noise but try it and see.

Regards,
Steve G6ALU

----- Original Message -----
From: "Jonathan point" <jonpoint@...>
To: <mkars80@...>
Sent: Saturday, October 16, 2010 12:50 AM
Subject: [mkars80] Re: Mounting Controls & Display Off PC Board

> Ken/Dean,
>
> *** The huff 'n' puff circuit has a limited range, as well as a long
> time-constant. Quick changes in frequency, caused by vibration - or even
> the TX relay - will render the circuit incapable of holding lock with
> nearly any remote-mounting ***
>
> Remote mounting the tuning cap will cause untold stability issues IME -
> don't do it - do the varicap tuning mod (under "files" in this group). If
> you extended it with coax, you'd find the tuning range restricted somewhat
> by the coax capacitance, but ANY movement at all of the coax would retune
> the radio!
>
> If you used stiff wires, the TX will couple into it and it will take off -
> as well as being annoyingly unstable :-(
>
>>> If you use a 10-turn pot with the varicap mod, you can dispense with the
>>> fine tune control if you use a large knob. I actually use the capacitor
>>> on-board with a 10:1 reduction drive and replaced the fine tune pot with
>>> a push-button for the backlight. <<

>
> The RF gain pot can be removed from the PCB and mounted on a bracket at
> right-angles to it. Just keep the leads really short (<1 inch). The Fine
> Tune pot can be remotely-mounted with no issues, but keep the wiring away
> from the PA stage.
>
> Backlit LCDs are readily available and can be mounted away from the PCB -
> but keep the wires away from the LPF & front end (and RF gain pot) or you
> can get noise. In fact, my backlit LCD couldn't be mounted on the PCB, as
> it would have displayed upside-down! I have short pieces of ribbon cable -
> about 2" long on mine, allowing me to mount it from the chassis.
>
> Best of luck and don't forget to post photos of your mods!
>
> Regards,
>
> Jon Point
> VK2JDP
>
> --- In mkars80@..., "Dean" <dean@...> wrote:
>>
>> Ken,
>>
>> Did you ever get any response to your questions?
>>
>> I am looking at doing the same thing, except I would like to replace the
>> var-cap in favor or varactor tuning.
>>
>> I already have a case in mind the will have enough room for the MKARS80,
>> CW adapter, battery, charger, etc.
>>
>> I am looking for a replacement for the LCD, one that is back-lit.
>>
>> Dean, N7XG
>>
>> --- In mkars80@..., "Ken" <kenp@> wrote:
>> >
>> >
>> > Hi: I was in an electronics shop downtown today and saw some very nice
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>> > performance of the basic unit so much that I would like to use the
>> > MKARS basic board as part of a larger "transceiver project" with more
>> > features. I plan lto add the CW Adapter Kit, possibly a small digital
>> > playback chip for "Auto CQ", and a small PWR/SWR meter. I may even
>> > convert that crankey Ramsey 20m 20 watt amp I have to 80m (just swap
>> > out
>> > the LPF) and add that, though I would not be able to use it for full
>> > break in or semi break in CW, just SSB. Anyway...

>> >
>> > What effect does remote mounting VR1, VR2 and the tuning polyvaricon
>> > have on performance? I can see where there might be a problem with the
>> > polyvaricon being hooked up off the board and picking up stray RFI
>> > and/or having tuning effects on the VFO circuit. I would use high
>> > quality, well shielded small coax like RG-316 for the to-board
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>> > even audio as well. I don't see any problems at all with mounting the
>> > digital display several inches away. (Found some very nice colorful
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>> > What was your experience and can you offer any tips?
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>> > [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1843. CW adaptor mounted in MKARS80 box

Yahoo group: mkars80
Date: 2010-10-16 20:06:26 UTC
From: John
Topic: 1843 Message: 1843

Hello Folks,

At the recent Hamfest there was some interest in my MKARS80 CW adaptor on display that was mounted in a matching case to the MKARS80 itself.

Having had requests for details on this I have uploaded some pictures of including internal shots which may give a few ideas to those contemplating the same thing.

The MKARS80 sits nicely on the top of the CW adaptor looks reasonable and controls are nice and accessible. I removed the keyer speed pot and mounted it separately alongside the pots on the main PCB

73 de John (M0TIF)

1844. Re: [mkars80] High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-17 02:41:33 UTC
From: John Warner
Topic: 1840 Message: 1844

Steve,

I haven't tried setting the mixer balance, as I haven't got a low power watt meter or scope. I'm going to try the s-meter approach, but I haven't quite worked out the logistics.

What I did do, is re-solder T1 and T3. If you recall, I had some problems with the Rx side transformers. After re-soldering, I decided to measure the TX voltage on Q5 and Q9 (power supply = 14.1v):

Emitter Base Collector
Q5 TX 6.4 7.1 7.1
Q9 TX 2.6 3.7 11.1

As you can see, Q5 is way out of spec. Any suggestions?

Thanks,
John

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Sat, October 16, 2010 8:22:21 AM
Subject: Re: [mkars80] High current before adjust PA bias

John,

With R2 set to minimum I would expect the TX current to be around 280mA with 14.5V supply and no modulation. Have you adjusted the mixer ballance - R59 / C103 as per the instructions?

Steve G6ALU

----- Original Message -----
From: "jrwdlw" <jrwdlw@...>
To: <mkars80@...>
Sent: Saturday, October 16, 2010 3:38 PM
Subject: [mkars80] High current before adjust PA bias

> I'm trying to adjust the PA bias current. R2 is set to the minimum. LCD
> says 14.5v. Receive current is 128ma. Transmit current with no
> microphone (I grounded Relay1/D6) is 626ma. The LED lights, and there is
> quite an increase in the level of output from the speaker (clicking that I
> believe is caused by the LCD). If I have the microphone connected, there
> is loud feedback.
>
> Any suggestions?
>

> Thanks
> John
>
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1845. Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-17 19:04:27 UTC
From: panzerbeeb
Topic: 1840 Message: 1845

John,

Is Q5 in the right way round?
If so then you have a short between Q5 emitter and base, internally, or on the board somewhere. Looks like where the extra 300mA or so are going.

Mike, G8EEY

--- In mkars80@yahoogroups.co.uk, John Warner <jrwdlw@...> wrote:
>
> Steve,
>
> I haven't tried setting the mixer balance, as I haven't got a low power watt
> meter or scope. I'm going to try the s-meter approach, but I haven't quite
> worked out the logistics.
>
>
> What I did do, is re-solder T1 and T3. If you recall, I had some problems with
> the Rx side transformers. After re-soldering, I decided to measure the TX
> voltage on Q5 and Q9 (power supply = 14.1v):
>
> Emitter Base Collector
> Q5 TX 6.4 7.1 7.1
> Q9 TX 2.6 3.7 11.1
>
> As you can see, Q5 is way out of spec. Any suggestions?
>
> Thanks,
> John
>
>
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>
> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Sat, October 16, 2010 8:22:21 AM
> Subject: Re: [mkars80] High current before adjust PA bias
>
>
> John,
>
> With R2 set to minimum I would expect the TX current to be around 280mA with

> 14.5V supply and no modulation. Have you adjusted the mixer ballance - R59 /
> C103 as per the instructions?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "jrwdlw" <jrwdlw@...>
> To: <mkars80@...>
> Sent: Saturday, October 16, 2010 3:38 PM
> Subject: [mkars80] High current before adjust PA bias
>
> > I'm trying to adjust the PA bias current. R2 is set to the minimum. LCD
> > says 14.5v. Receive current is 128ma. Transmit current with no
> > microphone (I grounded Relay1/D6) is 626ma. The LED lights, and there is
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> > believe is caused by the LCD). If I have the microphone connected, there
> > is loud feedback.
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> > Any suggestions?
> >
> > Thanks
> > John
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1846. Re: [mkars80] Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-17 19:20:29 UTC
From: Steve Drury
Topic: 1840 Message: 1846

My guess is Q5 either the wrong way round or a blob of solder collector / base, check with an ohm meter. Also check that the 22R emitter resistor has survived!

Steve G6ALU

PS Q5 does get hot in normal operation.

----- Original Message -----
From: "panzerbeeb" <mike_mobbs@...>
To: <mkars80@...>
Sent: Sunday, October 17, 2010 8:04 PM
Subject: [mkars80] Re: High current before adjust PA bias

> John,
>
> Is Q5 in the right way round?
> If so then you have a short between Q5 emitter and base, internally, or on
> the board somewhere. Looks like where the extra 300mA or so are going.
>
> Mike, G8EEY
>
> --- In mkars80@..., John Warner <jrwdlw@...> wrote:
>>
>> Steve,
>>
>> I haven't tried setting the mixer balance, as I haven't got a low power
>> watt
>> meter or scope. I'm going to try the s-meter approach, but I haven't
>> quite
>> worked out the logistics.
>>
>>
>> What I did do, is re-solder T1 and T3. If you recall, I had some
>> problems with
>> the Rx side transformers. After re-soldering, I decided to measure the
>> TX
>> voltage on Q5 and Q9 (power supply = 14.1v):
>>
>> Emitter Base Collector
>> Q5 TX 6.4 7.1 7.1
>> Q9 TX 2.6 3.7 11.1
>>
>> As you can see, Q5 is way out of spec. Any suggestions?
>>
>> Thanks,

>> John
>>
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>> _____
>> From: Steve Drury <g6alu@...>
>> To: mkars80@...
>> Sent: Sat, October 16, 2010 8:22:21 AM
>> Subject: Re: [mkars80] High current before adjust PA bias
>>
>>
>> John,
>>
>> With R2 set to minimum I would expect the TX current to be around 280mA
>> with
>> 14.5V supply and no modulation. Have you adjusted the mixer ballance -
>> R59 /
>> C103 as per the instructions?
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "jrwdlw" <jrwdlw@...>
>> To: <mkars80@...>
>> Sent: Saturday, October 16, 2010 3:38 PM
>> Subject: [mkars80] High current before adjust PA bias
>>
>> > I'm trying to adjust the PA bias current. R2 is set to the minimum.
>> > LCD
>> > says 14.5v. Receive current is 128ma. Transmit current with no
>> > microphone (I grounded Relay1/D6) is 626ma. The LED lights, and there
>> > is
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>> > believe is caused by the LCD). If I have the microphone connected,
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>> > is loud feedback.
>> >
>> > Any suggestions?
>> >
>> > Thanks
>> > John
>> >
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1847. Re: [mkars80] Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-17 20:22:14 UTC
From: John Warner
Topic: 1840 Message: 1847

Mike,

Q5 is mounted correctly. I don't think the emitter and base are shorted. Here's my assumption why (which may be completely wrong!). With the power off, I measured across R25 (470 ohm) and it reads 363 ohms. If there were a simple short through the emitter-base, R25 would be in parallel with R19 (22 ohms), and it would read about 21 ohms (470 * 22 / 492 = 21 ohms)

I don't know anything about the ZTX651, but it appears the collector-emitter are connected in an un-powered state. Why? The 363 ohm reading on R25 would be the expected value if R25 is in parallel with R22 (2k2 ohm) and R19 (22 ohm). My reading, and the calculation, 2222 * 470 / 2692 = 388 ohms, would tend to indicated that.

Here's what really confuses me. I measured across R22 (2k2 ohms), and it reads .8 ohm (that's right, less than 1 ohm). Assuming the collector-emitter connection, R22 is in parallel with R19 (22 ohm) and R25 (470 ohm). So, 2200 * 492 / 2692 = 402 ohms. Not even close to .8 ohm. This leads me to believe that there is a collector-base short, PCB short, or R22 is bad.

I'm going to try your suggestion of looking for shorts on the board, and then I might remove Q5. With it out of the circuit, it will be easier to see clearly if it's internally shorted.

I really appreciate the help Mike. And please point out any errors in my assumptions. I'm trying hard to learn from this.

Thanks,
John

From: panzerbeeb <mike_mobbs@....uk>
To: mkars80@...
Sent: Sun, October 17, 2010 12:04:27 PM
Subject: [mkars80] Re: High current before adjust PA bias

John,

Is Q5 in the right way round?
If so then you have a short between Q5 emitter and base, internally, or on the board somewhere. Looks like where the extra 300mA or so are going.

Mike, G8EEY

--- In mkars80@..., John Warner <jrwdlw@...> wrote:
>
> Steve,
>

> I haven't tried setting the mixer balance, as I haven't got a low power watt
> meter or scope. I'm going to try the s-meter approach, but I haven't quite
> worked out the logistics.
>
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> What I did do, is re-solder T1 and T3. If you recall, I had some problems with
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> voltage on Q5 and Q9 (power supply = 14.1v):
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> Emitter Base Collector
> Q5 TX 6.4 7.1 7.1
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> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Sat, October 16, 2010 8:22:21 AM
> Subject: Re: [mkars80] High current before adjust PA bias
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>
> John,
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> With R2 set to minimum I would expect the TX current to be around 280mA with
> 14.5V supply and no modulation. Have you adjusted the mixer ballance - R59 /
> C103 as per the instructions?
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "jrwdlw" <jrwdlw@...>
> To: <mkars80@yahoogroups.co.uk>
> Sent: Saturday, October 16, 2010 3:38 PM
> Subject: [mkars80] High current before adjust PA bias
>
> > I'm trying to adjust the PA bias current. R2 is set to the minimum. LCD
> > says 14.5v. Receive current is 128ma. Transmit current with no
> > microphone (I grounded Relay1/D6) is 626ma. The LED lights, and there is
> > quite an increase in the level of output from the speaker (clicking that I

> > believe is caused by the LCD). If I have the microphone connected, there
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1848. Re: [mkars80] Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-17 20:35:46 UTC
From: John Warner
Topic: 1840 Message: 1848

Steve,

If you read my response to Mike (G8EEY), the resistance across R22 is less than 1 ohm. Based upon your comment, I assume the collector/base shorted. I'll check the board and resistor first, and then pull Q5 if required.

Thanks for the help.
John

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Sun, October 17, 2010 12:20:29 PM
Subject: Re: [mkars80] Re: High current before adjust PA bias

My guess is Q5 either the wrong way round or a blob of solder collector / base, check with an ohm meter. Also check that the 22R emitter resistor has survived!

Steve G6ALU

PS Q5 does get hot in normal operation.

----- Original Message -----
From: "panzerbeeb" <mike_mobbs@...>
To: <mkars80@...>
Sent: Sunday, October 17, 2010 8:04 PM
Subject: [mkars80] Re: High current before adjust PA bias

> John,
>
> Is Q5 in the right way round?
> If so then you have a short between Q5 emitter and base, internally, or on
> the board somewhere. Looks like where the extra 300mA or so are going.
>
> Mike, G8EEY
>
> --- In mkars80@yahoogroups.co.uk, John Warner <jrwdlw@...> wrote:
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>> Steve,
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>> meter or scope. I'm going to try the s-meter approach, but I haven't
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>> worked out the logistics.
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>>
>> What I did do, is re-solder T1 and T3. If you recall, I had some
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>> voltage on Q5 and Q9 (power supply = 14.1v):
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>> Emitter Base Collector
>> Q5 TX 6.4 7.1 7.1
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>> _____
>> From: Steve Drury <g6alu@...>
>> To: mkars80@....uk
>> Sent: Sat, October 16, 2010 8:22:21 AM
>> Subject: Re: [mkars80] High current before adjust PA bias
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>>
>> John,
>>
>> With R2 set to minimum I would expect the TX current to be around 280mA
>> with
>> 14.5V supply and no modulation. Have you adjusted the mixer ballance -
>> R59 /
>> C103 as per the instructions?
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "jrwdlw" <jrwdlw@...>
>> To: <mkars80@...>
>> Sent: Saturday, October 16, 2010 3:38 PM
>> Subject: [mkars80] High current before adjust PA bias
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>> > I'm trying to adjust the PA bias current. R2 is set to the minimum.
>> > LCD
>> > says 14.5v. Receive current is 128ma. Transmit current with no
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>> > is loud feedback.
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>> > Any suggestions?
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>> > Thanks
>> > John
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1849. Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-17 21:14:42 UTC
From: panzerbeeb
Topic: 1840 Message: 1849

Hi John,

Yes, a senior moment on my part, I meant to say base-collector short on Q5, I don't know why I said emitter :-(

Mike G8EEY

--- In mkars80@yahoogroups.co.uk, John Warner <jrwdlw@...> wrote:
>
> Steve,
>
> If you read my response to Mike (G8EEY), the resistance across R22 is less than
> 1 ohm. Based upon your comment, I assume the collector/base shorted. I'll
> check the board and resistor first, and then pull Q5 if required.
>
> Thanks for the help.
> John
>
>
>
>
> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Sun, October 17, 2010 12:20:29 PM
> Subject: Re: [mkars80] Re: High current before adjust PA bias
>
>
> My guess is Q5 either the wrong way round or a blob of solder collector /
> base, check with an ohm meter. Also check that the 22R emitter resistor has
> survived!
>
> Steve G6ALU
>
> PS Q5 does get hot in normal operation.
>
> ----- Original Message -----
> From: "panzerbeeb" <mike_mobbs@...>
> To: <mkars80@...>
> Sent: Sunday, October 17, 2010 8:04 PM
> Subject: [mkars80] Re: High current before adjust PA bias
>
> > John,
> >
> > Is Q5 in the right way round?
> > If so then you have a short between Q5 emitter and base, internally, or on

> > the board somewhere. Looks like where the extra 300mA or so are going.
> >
> > Mike, G8EEY
> >
> > --- In mkars80@..., John Warner <jrwdlw@> wrote:
> >>
> >> Steve,
> >>
> >> I haven't tried setting the mixer balance, as I haven't got a low power
> >> watt
> >> meter or scope. I'm going to try the s-meter approach, but I haven't
> >> quite
> >> worked out the logistics.
> >>
> >>
> >> What I did do, is re-solder T1 and T3. If you recall, I had some
> >> problems with
> >> the Rx side transformers. After re-soldering, I decided to measure the
> >> TX
> >> voltage on Q5 and Q9 (power supply = 14.1v):
> >>
> >> Emitter Base Collector
> >> Q5 TX 6.4 7.1 7.1
> >> Q9 TX 2.6 3.7 11.1
> >>
> >> As you can see, Q5 is way out of spec. Any suggestions?
> >>
> >> Thanks,
> >> John
> >>
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> >> _____
> >> From: Steve Drury <g6alu@>
> >> To: mkars80@...
> >> Sent: Sat, October 16, 2010 8:22:21 AM
> >> Subject: Re: [mkars80] High current before adjust PA bias
> >>
> >>
> >> John,
> >>
> >> With R2 set to minimum I would expect the TX current to be around 280mA
> >> with
> >> 14.5V supply and no modulation. Have you adjusted the mixer ballance -
> >> R59 /
> >> C103 as per the instructions?

> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "jrwdlw" <jrwdlw@>
> >> To: <mkars80@...>
> >> Sent: Saturday, October 16, 2010 3:38 PM
> >> Subject: [mkars80] High current before adjust PA bias
> >>
> >> > I'm trying to adjust the PA bias current. R2 is set to the minimum.
> >> > LCD
> >> > says 14.5v. Receive current is 128ma. Transmit current with no
> >> > microphone (I grounded Relay1/D6) is 626ma. The LED lights, and there
> >> > is
> >> > quite an increase in the level of output from the speaker (clicking
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> >> > believe is caused by the LCD). If I have the microphone connected,
> >> > there
> >> > is loud feedback.
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> >> > Any suggestions?
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> >> > Thanks
> >> > John
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1850. Re: [mkars80] Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-17 22:39:39 UTC
From: John Warner
Topic: 1840 Message: 1850

Mike & Steve,

I removed R22 and Q5. R22 is ok, as it measured just slightly under 2k2. Q5 is interesting. The DVM indicates emitter-collector as infinite, emitter-base as 4.8 meg, and base-collector as infinite. Not what I was expecting for the base-collector. I have no idea what a good ZTX651 would measure. I'm wondering if I fried Q5 getting it out, transforming thr shorted condition into an open circuit? Don't know if that's possible, but all the evidence implies the base-collector was shorted while it was in the circuit. I've looked over the board carefully, and I don't see anything else that could have caused it.

Anyhow, the next step is to order a new ZTX651 from Mouser, and see if that fixes the problem

John

From: panzerbeeb <mike_mobbs@...>
To: mkars80@...
Sent: Sun, October 17, 2010 2:14:42 PM
Subject: [mkars80] Re: High current before adjust PA bias

Hi John,

Yes, a senior moment on my part, I meant to say base-collector short on Q5, I don't know why I said emitter :-(

Mike G8EEY

--- In mkars80@..., John Warner <jrwdlw@...> wrote:
>
> Steve,
>
> If you read my response to Mike (G8EEY), the resistance across R22 is less than
>
> 1 ohm. Based upon your comment, I assume the collector/base shorted. I'll
> check the board and resistor first, and then pull Q5 if required.
>
> Thanks for the help.
> John
>
>
>
>
> ---
> From: Steve Drury <g6alu@...>
> To: mkars80@...

> Sent: Sun, October 17, 2010 12:20:29 PM
> Subject: Re: [mkars80] Re: High current before adjust PA bias
>
>
> My guess is Q5 either the wrong way round or a blob of solder collector /
> base, check with an ohm meter. Also check that the 22R emitter resistor has
> survived!
>
> Steve G6ALU
>
> PS Q5 does get hot in normal operation.
>
> ----- Original Message -----
> From: "panzerbeeb" <mike_mobbs@...>
> To: <mkars80@...>
> Sent: Sunday, October 17, 2010 8:04 PM
> Subject: [mkars80] Re: High current before adjust PA bias
>
> > John,
> >
> > Is Q5 in the right way round?
> > If so then you have a short between Q5 emitter and base, internally, or on
> > the board somewhere. Looks like where the extra 300mA or so are going.
> >
> > Mike, G8EEY
> >
> > --- In mkars80@..., John Warner <jrwdlw@> wrote:
> >>
> >> Steve,
> >>
> >> I haven't tried setting the mixer balance, as I haven't got a low power
> >> watt
> >> meter or scope. I'm going to try the s-meter approach, but I haven't
> >> quite
> >> worked out the logistics.
> >>
> >>
> >> What I did do, is re-solder T1 and T3. If you recall, I had some
> >> problems with
> >> the Rx side transformers. After re-soldering, I decided to measure the
> >> TX
> >> voltage on Q5 and Q9 (power supply = 14.1v):
> >>
> >> Emitter Base Collector
> >> Q5 TX 6.4 7.1 7.1
> >> Q9 TX 2.6 3.7 11.1
> >>
> >> As you can see, Q5 is way out of spec. Any suggestions?
> >>
> >> Thanks,

> >> John
> >>
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> >>
> >> _____
> >> From: Steve Drury <g6alu@>
> >> To: mkars80@yahoogroups.co.uk
> >> Sent: Sat, October 16, 2010 8:22:21 AM
> >> Subject: Re: [mkars80] High current before adjust PA bias
> >>
> >>
> >> John,
> >>
> >> With R2 set to minimum I would expect the TX current to be around 280mA
> >> with
> >> 14.5V supply and no modulation. Have you adjusted the mixer ballance -
> >> R59 /
> >> C103 as per the instructions?
> >>
> >> Steve G6ALU
> >>
> >> ----- Original Message -----
> >> From: "jrwdlw" <jrwdlw@>
> >> To: <mkars80@...>
> >> Sent: Saturday, October 16, 2010 3:38 PM
> >> Subject: [mkars80] High current before adjust PA bias
> >>
> >> > I'm trying to adjust the PA bias current. R2 is set to the minimum.
> >> > LCD
> >> > says 14.5v. Receive current is 128ma. Transmit current with no
> >> > microphone (I grounded Relay1/D6) is 626ma. The LED lights, and there
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> >> > quite an increase in the level of output from the speaker (clicking
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> >> > believe is caused by the LCD). If I have the microphone connected,
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> >> > is loud feedback.
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> >> > Any suggestions?
> >> >
> >> > Thanks
> >> > John
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1851. Re: [mkars80] Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-18 06:00:28 UTC
From: Steve Drury
Topic: 1840 Message: 1851

I can supply a new transistor John (let me know if you would like one) but I expect it was a small whisp of solder when in circuit which has now cleared so that transistor is probably OK.

Steve G6ALU

----- Original Message -----
From: "John Warner" <jrwdlw@...>
To: <mkars80@...>
Sent: Sunday, October 17, 2010 11:39 PM
Subject: Re: [mkars80] Re: High current before adjust PA bias

> Mike & Steve,
>
> I removed R22 and Q5. R22 is ok, as it measured just slightly under 2k2.
> Q5 is
> interesting. The DVM indicates emitter-collector as infinite,
> emitter-base as
> 4.8 meg, and base-collector as infinite. Not what I was expecting for the
> base-collector. I have no idea what a good ZTX651 would measure. I'm
> wondering
> if I fried Q5 getting it out, transforming thr shorted condition into an
> open
> circuit? Don't know if that's possible, but all the evidence implies the
> base-collector was shorted while it was in the circuit. I've looked over
> the
> board carefully, and I don't see anything else that could have caused it.
>
> Anyhow, the next step is to order a new ZTX651 from Mouser, and see if
> that
> fixes the problem
>
> John
>
>
>
>
>
> _____
> From: panzerbeeb <mike_mobbs@...>
> To: mkars80@...
> Sent: Sun, October 17, 2010 2:14:42 PM
> Subject: [mkars80] Re: High current before adjust PA bias
>
>
> Hi John,

>
> Yes, a senior moment on my part, I meant to say base-collector short on
> Q5, I
> don't know why I said emitter :-(
>
> Mike G8EEY
>
> --- In mkars80@..., John Warner <jrwdlw@...> wrote:
>>
>> Steve,
>>
>> If you read my response to Mike (G8EEY), the resistance across R22 is
>> less than
>>
>> 1 ohm. Based upon your comment, I assume the collector/base shorted.
>> I'll
>> check the board and resistor first, and then pull Q5 if required.
>>
>> Thanks for the help.
>> John
>>
>>
>>
>>
>> _____
>> From: Steve Drury <g6alu@...>
>> To: mkars80@...
>> Sent: Sun, October 17, 2010 12:20:29 PM
>> Subject: Re: [mkars80] Re: High current before adjust PA bias
>>
>>
>> My guess is Q5 either the wrong way round or a blob of solder collector /
>> base, check with an ohm meter. Also check that the 22R emitter resistor
>> has
>> survived!
>>
>> Steve G6ALU
>>
>> PS Q5 does get hot in normal operation.
>>
>> ----- Original Message -----
>> From: "panzerbeeb" <mike_mobbs@...>
>> To: <mkars80@...>
>> Sent: Sunday, October 17, 2010 8:04 PM
>> Subject: [mkars80] Re: High current before adjust PA bias
>>
>> > John,
>> >
>> > Is Q5 in the right way round?
>> > If so then you have a short between Q5 emitter and base, internally, or

>> > on
>> > the board somewhere. Looks like where the extra 300mA or so are going.
>> >
>> > Mike, G8EEY
>> >
>> > --- In mkars80@..., John Warner <jrwdlw@> wrote:
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>> >> Steve,
>> >>
>> >> I haven't tried setting the mixer balance, as I haven't got a low
>> >> power
>> >> watt
>> >> meter or scope. I'm going to try the s-meter approach, but I haven't
>> >> quite
>> >> worked out the logistics.
>> >>
>> >>
>> >> What I did do, is re-solder T1 and T3. If you recall, I had some
>> >> problems with
>> >> the Rx side transformers. After re-soldering, I decided to measure
>> >> the
>> >> TX
>> >> voltage on Q5 and Q9 (power supply = 14.1v):
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>> >> Emitter Base Collector
>> >> Q5 TX 6.4 7.1 7.1
>> >> Q9 TX 2.6 3.7 11.1
>> >>
>> >> As you can see, Q5 is way out of spec. Any suggestions?
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>> >> Thanks,
>> >> John
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>> >>
>> >> _____
>> >> From: Steve Drury <g6alu@>
>> >> To: mkars80@...
>> >> Sent: Sat, October 16, 2010 8:22:21 AM
>> >> Subject: Re: [mkars80] High current before adjust PA bias
>> >>
>> >>
>> >> John,
>> >>
>> >> With R2 set to minimum I would expect the TX current to be around
>> >> 280mA

>> >> with
>> >> 14.5V supply and no modulation. Have you adjusted the mixer ballance -
>> >> R59 /
>> >> C103 as per the instructions?
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: "jrwdlw" <jrwdlw@>
>> >> To: <mkars80@...>
>> >> Sent: Saturday, October 16, 2010 3:38 PM
>> >> Subject: [mkars80] High current before adjust PA bias
>> >>
>> >> > I'm trying to adjust the PA bias current. R2 is set to the minimum.
>> >> > LCD
>> >> > says 14.5v. Receive current is 128ma. Transmit current with no
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1852. Re: [mkars80] Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-10-18 13:07:42 UTC
From: John Warner
Topic: 1840 Message: 1852

Please DO NOT send a transistor. I get one from Mouser with my next order of "goodies".

I realized later, that I could have tested the transistor "like two diodes". I will try that this evening. Also, I like your idea. I may just solder the transistor and resistor back in, and see what happens!

Thanks,
John

From: Steve Drury <g6alu@...>
To: mkars80@...
Sent: Sun, October 17, 2010 11:00:28 PM
Subject: Re: [mkars80] Re: High current before adjust PA bias

I can supply a new transistor John (let me know if you would like one) but I expect it was a small whisp of solder when in circuit which has now cleared so that transistor is probably OK.

Steve G6ALU

----- Original Message -----
From: "John Warner" <jrwdlw@...>
To: <mkars80@yahoogroups.co.uk>
Sent: Sunday, October 17, 2010 11:39 PM
Subject: Re: [mkars80] Re: High current before adjust PA bias

> Mike & Steve,
>
> I removed R22 and Q5. R22 is ok, as it measured just slightly under 2k2.
> Q5 is
> interesting. The DVM indicates emitter-collector as infinite,
> emitter-base as
> 4.8 meg, and base-collector as infinite. Not what I was expecting for the
> base-collector. I have no idea what a good ZTX651 would measure. I'm
> wondering
> if I fried Q5 getting it out, transforming thr shorted condition into an
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> circuit? Don't know if that's possible, but all the evidence implies the
> base-collector was shorted while it was in the circuit. I've looked over
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> Anyhow, the next step is to order a new ZTX651 from Mouser, and see if
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> fixes the problem

>
> John
>
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> _____
> From: panzerbeeb <mike_mobbs@zen.co.uk>
> To: mkars80@...
> Sent: Sun, October 17, 2010 2:14:42 PM
> Subject: [mkars80] Re: High current before adjust PA bias
>
>
> Hi John,
>
> Yes, a senior moment on my part, I meant to say base-collector short on
> Q5, I
> don't know why I said emitter :-(
>
> Mike G8EEY
>
> --- In mkars80@..., John Warner <jrwdlw@...> wrote:
>>
>> Steve,
>>
>> If you read my response to Mike (G8EEY), the resistance across R22 is
>> less than
>>
>> 1 ohm. Based upon your comment, I assume the collector/base shorted.
>> I'll
>> check the board and resistor first, and then pull Q5 if required.
>>
>> Thanks for the help.
>> John
>>
>>
>>
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>> _____
>> From: Steve Drury <g6alu@...>
>> To: mkars80@...
>> Sent: Sun, October 17, 2010 12:20:29 PM
>> Subject: Re: [mkars80] Re: High current before adjust PA bias
>>
>>
>> My guess is Q5 either the wrong way round or a blob of solder collector /
>> base, check with an ohm meter. Also check that the 22R emitter resistor
>> has
>> survived!

>>
>> Steve G6ALU
>>
>> PS Q5 does get hot in normal operation.
>>
>> ----- Original Message -----
>> From: "panzerbeeb" <mike_mobbs@...>
>> To: <mkars80@...>
>> Sent: Sunday, October 17, 2010 8:04 PM
>> Subject: [mkars80] Re: High current before adjust PA bias
>>
>> > John,
>> >
>> > Is Q5 in the right way round?
>> > If so then you have a short between Q5 emitter and base, internally, or
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>> > Mike, G8EEY
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>> > --- In mkars80@..., John Warner <jrwdlw@> wrote:
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>> >> I haven't tried setting the mixer balance, as I haven't got a low
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>> >> What I did do, is re-solder T1 and T3. If you recall, I had some
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>> >> the Rx side transformers. After re-soldering, I decided to measure
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>> >> voltage on Q5 and Q9 (power supply = 14.1v):
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>> >> Q5 TX 6.4 7.1 7.1
>> >> Q9 TX 2.6 3.7 11.1
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>> >> As you can see, Q5 is way out of spec. Any suggestions?
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>> >> Thanks,
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>> >> From: Steve Drury <g6alu@>
>> >> To: mkars80@...
>> >> Sent: Sat, October 16, 2010 8:22:21 AM
>> >> Subject: Re: [mkars80] High current before adjust PA bias
>> >>
>> >>
>> >> John,
>> >>
>> >> With R2 set to minimum I would expect the TX current to be around
>> >> 280mA
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>> >> 14.5V supply and no modulation. Have you adjusted the mixer ballance -
>> >> R59 /
>> >> C103 as per the instructions?
>> >>
>> >> Steve G6ALU
>> >>
>> >> ----- Original Message -----
>> >> From: "jrwdlw" <jrwdlw@>
>> >> To: <mkars80@...>
>> >> Sent: Saturday, October 16, 2010 3:38 PM
>> >> Subject: [mkars80] High current before adjust PA bias
>> >>
>> >> > I'm trying to adjust the PA bias current. R2 is set to the minimum.
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>> >> > says 14.5v. Receive current is 128ma. Transmit current with no
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1853. Re: Small linear for MKARS80 ?

Yahoo group: mkars80
Date: 2010-10-29 18:30:28 UTC
From: G1IVG
Topic: 1799 Message: 1853

All,

As promised here is an update on PA0RCL's 40w linear that I have just completed. It really compliments the MKARS80. You can leave it in circuit and powered off for QRP or turn it on for 40w.

I made up a PCB using the overlay on Ron's website. The only change I made to the PCB was to turn the VOX transistor 90deg's clockwise and re-route the corresponding tracks to accommodate the new placement of the transistor making the solder pads for the transistor slightly bigger. I then populated the PCB with components mainly from my junk box. I bought the FT50-43, F37-2 and BN43-202 ferrite cores from www.jab dog.com here in the UK. Winding the coils was straight forward and I finally boxed it up in an Eddystone Diecast box from Maplins to keep it cool.

With 4 to 5w from the MKARS80 I get a solid 40w out of the linear. The only component change I made was to use a 100uf capacitor rather than the original 47uf to give a slightly longer VOX on time.

Many thanks to Ron PA0RCL for this design and the correspondence during the build.

Has anyone else built the amp?

Here is the link aging for those interested.

http://www.pa0rcl.com/PA0RCL/MKARS80_Linear_Amp.html

73 de Colin G1IVG

--- In mkars80@..., "G1IVG" <g1ivg@...> wrote:
>
> Here is the link I mentioned in my last message, it's for a small linear designed by Ron PA0RCL and I plan to make a start on building it this week. I will keep you all posted how it goes.
>
> http://www.pa0rcl.com/PA0RCL/MKARS80_Linear_Amp.html
>
>
> Regards
> Colin
> G1IVG
>
> --- In mkars80@yahoogroups.co.uk, "G1IVG" <g1ivg@> wrote:
> >
> > Hi all,
> >
> > Although I have had great success with my MKARS80 on 5w, I fancy making a small amplifier like the "Fara HF Project" by WA1GPO. Has anyone here made a similar amplifier

for their MKARS80?
> >
> > Colin G1IVG
> >
>

1854. Initial testing

Yahoo group: mkars80
Date: 2010-10-29 23:14:57 UTC
From: Jes
Topic: 1854 Message: 1854

Forgive if,from this point on,I ask the most stupid questions,but I am only a joiner and hammers and nails are my tools of choice!
I have built the kit to the point of initial testing.With power,antenna and speaker connected I get correct readings between supply positive and ground and at R34 and VR2.There was no smoke,no bangs and no smell of frying components.There is a hiss from the speaker but nothing more.I have checked for dry joints and reheated suspect solder and I have checked components for correct polarity.What do I need to check next?
All suggestions will be greatly appreciated and followed up even if I have already tried it.Thanks...Jes 2e0tew

1855. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-30 07:58:21 UTC
From: Steve Drury
Topic: 1854 Message: 1855

Jes,

Have you fitted the display and micro yet? If not go ahead and do so as the results will give additional clues to any problems, but check the 5v supply first as per manual.

Regards,
Steve G6ALU

----- Original Message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Sent: Saturday, October 30, 2010 12:14 AM
Subject: [mkars80] Initial testing

> Forgive if,from this point on,I ask the most stupid questions,but I am
> only a joiner and hammers and nails are my tools of choice!
> I have built the kit to the point of initial testing.With
> power,antenna and speaker connected I get correct readings between supply
> positive and ground and at R34 and VR2.There was no smoke,no bangs and no
> smell of frying components.There is a hiss from the speaker but nothing
> more.I have checked for dry joints and reheated suspect solder and I have
> checked components for correct polarity.What do I need to check next?
> All suggestions will be greatly appreciated and followed up even if I
> have already tried it.Thanks...Jes 2e0tew
>
>
>
> ------------------------------------
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> Yahoo! Groups Links
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1856. Small linear for MKARS80...

Yahoo group: mkars80
Date: 2010-10-30 13:21:15 UTC
From: a_strong@btopenworld.com
Topic: 1856 Message: 1856

I have been looking at this too as I am sure others are doing and whilst I have the expertise to make the PCB (it used to be part of my job) I no longer have the resources.

Might there be sufficient in the group to justify having a small batch of boards produced?

Steve's supplier does a superb job with the MKARS80 tcvr PCB.

Alan G3WXI

1857. Re: [mkars80] Small linear for MKARS80...

Yahoo group: mkars80
Date: 2010-10-30 13:41:52 UTC
From: Steve Drury
Topic: 1856 Message: 1857

I have been using free PCB design software http://www.designspark.com/pcb ,
it works well.

Does anyone fancy laying it out? The minimum practical quantity with my
suppier is 100 PCBs but for small quantites you can use sure electronics on
ebay.

Steve G6ALU

----- Original Message -----
From: "a_strong@..." <A_Strong@...>
To: <mkars80@...>
Sent: Saturday, October 30, 2010 2:21 PM
Subject: [mkars80] Small linear for MKARS80...

>I have been looking at this too as I am sure others are doing and whilst I
>have the expertise to make the PCB (it used to be part of my job) I no
>longer have the resources.
>
> Might there be sufficient in the group to justify having a small batch of
> boards produced?
>
> Steve's supplier does a superb job with the MKARS80 tcvr PCB.
>
> Alan G3WXI
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1858. Re: [mkars80] Small linear for MKARS80...

Yahoo group: mkars80
Date: 2010-10-30 15:22:26 UTC
From: PHIL YATES
Topic: 1856 Message: 1858

I think Newbury Electronics will do 10 PCBs and up, usually with a quick turn around. But like everything else you pay for it.

We use them at work and they seem quite quick.

Phil
G7BZD

[Non-text portions of this message have been removed]

1859. Re: [mkars80] Small linear for MKARS80...

Yahoo group: mkars80
Date: 2010-10-30 16:08:33 UTC
From: Steve Drury
Topic: 1856 Message: 1859

Yes we also use them... they are a little pricey though for low quantities.

Steve G6ALU

----- Original Message -----
From: "PHIL YATES" <philg7bzd@...>
To: <mkars80@...>
Sent: Saturday, October 30, 2010 4:22 PM
Subject: Re: [mkars80] Small linear for MKARS80...

I think Newbury Electronics will do 10 PCBs and up, usually with a quick
turn around.
But like everything else you pay for it.

We use them at work and they seem quite quick.

Phil
G7BZD

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1860. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-30 17:37:42 UTC
From: Jes
Topic: 1854 Message: 1860

Hi Steve.Supply at R34 is 4.98v,micro and display are fitted and display bias adjusted.No message,but top row of characters are `illuminated` blocks.....Jes

1861. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-30 18:20:06 UTC
From: Ken Pendarvis
Topic: 1854 Message: 1861

Jes: Adjust R-29 counter clockwise to
remove the "blocks" and the charcaters
should come up on the LCD.
Hope this helps.
73, Ken AD6KA/5R8GQ

[Non-text portions of this message have been removed]

1862. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-30 18:45:35 UTC
From: Steve Drury
Topic: 1854 Message: 1862

If you only have one row of blocks the micro isn't talking to the display.

The micro won't talk if it doesn't get a clock, this comes from the BFO. If you have a 'scope check for output from the BFO if not I suggest you check the voltages on Q7, 16 and 18.

Let us know the results.

Steve G6ALU

----- Original Message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Sent: Saturday, October 30, 2010 6:37 PM
Subject: Re: [mkars80] Initial testing

> Hi Steve.Supply at R34 is 4.98v,micro and display are fitted and display
> bias adjusted.No message,but top row of characters are `illuminated`
> blocks.....Jes
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1863. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-30 19:48:51 UTC
From: Jes
Topic: 1854 Message: 1863

Sorry Steve,no scope here,just a multimeter!

Q7`s readings are;
Emmitter - 0
Base - 0.39
Collector - 2.2

Q16`s readings are;
Emmitter - 0.25
Base - 0.83
Collector - 8.01

Q18`s readings are;
Emmitter - 8.01
Base - 1.43
Collector - 0.83

Not what they should be and display is now blank!
BTU

1864. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-30 20:27:25 UTC
From: Steve Drury
Topic: 1854 Message: 1864

Jes,

What is the voltage on pin 9 of the micro within a few seconds of turn on?
If this is about 2.5V all is well, if it is 0V or 5V then the micro probably
isn't getting its clock.

The readings for Q18 are the wrong way round, I suspect you confused its pin
out?

Regards,

Steve

----- Original Message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Sent: Saturday, October 30, 2010 8:48 PM
Subject: Re: [mkars80] Initial testing

> Sorry Steve,no scope here,just a multimeter!
>
> Q7`s readings are;
> Emmitter - 0
> Base - 0.39
> Collector - 2.2
>
> Q16`s readings are;
> Emmitter - 0.25
> Base - 0.83
> Collector - 8.01
>
> Q18`s readings are;
> Emmitter - 8.01
> Base - 1.43
> Collector - 0.83
>
> Not what they should be and display is now blank!
> BTU
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>
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> ------------------------------------
>
> Yahoo! Groups Links
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1865. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-30 20:36:59 UTC
From: Jes
Topic: 1854 Message: 1865

Steve.You are right about Q18,sorry,wrote it down in the wrong order.voltage at pin 9 is 0.

1866. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-30 21:43:13 UTC
From: Steve Drury
Topic: 1854 Message: 1866

OK, it doesn't sound as though the BFO is running but all voltages look
sensible - can you examine the soldering very carefully in the area of Q18.

If you can't find anything amiss it may be quickest to post it back to me
for diagnosis, I will just charge you the return postage but will also be
able to set it up for you using test equipment.

Regards,
Steve G6ALU

----- Original Message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Sent: Saturday, October 30, 2010 9:36 PM
Subject: Re: [mkars80] Initial testing

> Steve.You are right about Q18,sorry,wrote it down in the wrong
> order.voltage at pin 9 is 0.
>
>
>
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>
> Yahoo! Groups Links
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1867. Re: [mkars80] Small linear for MKARS80...

Yahoo group: mkars80
Date: 2010-10-31 05:50:04 UTC
From: Nick Brok
Topic: 1856 Message: 1867

--- On Sat, 10/30/10, Steve Drury <g6alu@...> wrote:

From: Steve Drury <g6alu@...>
Subject: Re: [mkars80] Small linear for MKARS80...
To: mkars80@...
Date: Saturday, October 30, 2010, 3:41 PM

I have been using free PCB design software http://www.designspark.com/pcb ,

it works well.

Does anyone fancy laying it out? The minimum practical quantity with my

suppier is 100 PCBs but for small quantites you can use sure electronics on

ebay.

Steve G6ALU

----- Original Message -----

From: "a_strong@..." <A_Strong@...>

To: <mkars80@...>

Sent: Saturday, October 30, 2010 2:21 PM

Subject: [mkars80] Small linear for MKARS80...

>I have been looking at this too as I am sure others are doing and whilst I

>have the expertise to make the PCB (it used to be part of my job) I no

>longer have the resources.

>

> Might there be sufficient in the group to justify having a small batch of

> boards produced?

>

> Steve's supplier does a superb job with the MKARS80 tcvr PCB.

>

> Alan G3WXI

>

>

>

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> Yahoo! Groups Links

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>

Hi,

If ou want PCB's in small quantities, try EUROCIRCUITS.
This is a company in Belgium and is specialysed for prototyping pcb.

Nick Brok,73 de PE1GOO

--

Berliozlaan 1 NL5654 SM Eindhoven Netherlands

1868. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-31 15:44:55 UTC
From: Jes
Topic: 1854 Message: 1868

Steve.I have checked the soldering around Q18 and can find no obvious faults.Unless you have any other ideas,I would be really grateful if you would let me send it to you,to look over,as I have neither the equipment or more importantly the know-how to analyze the fault(which will be mine...of that i`m certain!)
Cheers..Jes

1869. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-31 16:54:37 UTC
From: Steve Drury
Topic: 1854 Message: 1869

OK Jes no problem, our address is:

Radio-Kits
25 Crosslands,
Stantonbury,
Milton Keynes,
Bucks.
MK14 6AY

Best to send it "signed for" to give you peace of mind.

Regards,
Steve G6ALU

----- Original Message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Sent: Sunday, October 31, 2010 3:44 PM
Subject: Re: [mkars80] Initial testing

> Steve.I have checked the soldering around Q18 and can find no obvious
> faults.Unless you have any other ideas,I would be really grateful if you
> would let me send it to you,to look over,as I have neither the equipment
> or more importantly the know-how to analyze the fault(which will be
> mine...of that i`m certain!)
> Cheers..Jes
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1870. Re: [mkars80] Initial testing

Yahoo group: mkars80
Date: 2010-10-31 17:39:03 UTC
From: Jes
Topic: 1854 Message: 1870

Thanks Steve.I will put it inside the enclosure box to protect it from the Ham-fisted vigours of the "Royal Fail".Sorry to trouble you!73...Jes

1871. ATM1602B

Yahoo group: mkars80
Date: 2010-11-08 21:50:56 UTC
From: Dean
Topic: 1871 Message: 1871

Anyone know where I can purchase this display here in the US?

Dean, N7XG

1872. L1 to L5 Values

Yahoo group: mkars80
Date: 2010-11-09 21:56:34 UTC
From: m0icw
Topic: 1872 Message: 1872

Hi All,

Can anyone tell me the Henry values for L1 , 2 ,3 ,and 4 (L5 is noted in Construction Manual as 4.8uH).
When I checked my L5 (40T of 33 SWG ECW on T37-6 toroid), on my (Calibrated) LCR Meter, I got a reading of
2.8uH, a long way off the suggested 4.8 uH.
This got me wondering about values for L1 to L4 !!

73 de

Fred M0ICW

[Non-text portions of this message have been removed]

1873. Re: [mkars80] L1 to L5 Values

Yahoo group: mkars80
Date: 2010-11-10 09:01:58 UTC
From: Steve Drury
Topic: 1872 Message: 1873

Morning Fred,

Those are the values they calculate to using manufacturers data - what frequency does your LCR meter test at? To some extent the values were arrived at empirically so the circuit operation isn't affected but for interest I will measure a few samples on the network analyser - this won't be until next week though when I have access (I don't own one!).

The most important thing is the VFO tunes the band required and the LPF filters harmonics - and both meet those requirements.

Regards,
Steve G6ALU

----- Original Message -----
From: "m0icw" <m0icw@...>
To: <mkars80@...>
Sent: Tuesday, November 09, 2010 9:56 PM
Subject: [mkars80] L1 to L5 Values

> Hi All,
>
> Can anyone tell me the Henry values for L1 , 2 ,3 ,and 4 (L5 is noted in
> Construction Manual as 4.8uH).
> When I checked my L5 (40T of 33 SWG ECW on T37-6 toroid), on my
> (Calibrated) LCR Meter, I got a reading of
> 2.8uH, a long way off the suggested 4.8 uH.
> This got me wondering about values for L1 to L4 !!
>
> 73 de
>
> Fred M0ICW
>
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1874. Re: L1 to L5 Values

Yahoo group: mkars80
Date: 2010-11-11 11:24:10 UTC
From: m0icw
Topic: 1872 Message: 1874

Morning Steve,

Tks for the info on Inductor values in the MKARS80 circuit.

The LCR that I use, measures at 3 different frequencies, 200kHz, 15kHz
and 1kHz.
200khz is the test frequency used typically for an inductance range of
0uH to 0.3mH.

I will be very interested in the results that you obtain next week, on
the network analyser.

Regards,

Fred M0ICW

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Morning Fred,
>
> Those are the values they calculate to using manufacturers data - what
> frequency does your LCR meter test at? To some extent the values were
> arrived at empirically so the circuit operation isn't affected but for
> interest I will measure a few samples on the network analyser - this
won't
> be until next week though when I have access (I don't own one!).
>
> The most important thing is the VFO tunes the band required and the
LPF
> filters harmonics - and both meet those requirements.
>
> Regards,
> Steve G6ALU
>
>
> ----- Original Message -----
> From: "m0icw" m0icw@...
> To: mkars80@...
> Sent: Tuesday, November 09, 2010 9:56 PM
> Subject: [mkars80] L1 to L5 Values
>
>
> > Hi All,
> >
> > Can anyone tell me the Henry values for L1 , 2 ,3 ,and 4 (L5 is
noted in

> > Construction Manual as 4.8uH).
> > When I checked my L5 (40T of 33 SWG ECW on T37-6 toroid), on my
> > (Calibrated) LCR Meter, I got a reading of
> > 2.8uH, a long way off the suggested 4.8 uH.
> > This got me wondering about values for L1 to L4 !!
> >
> > 73 de
> >
> > Fred M0ICW
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1875. Re: High current before adjust PA bias

Yahoo group: mkars80
Date: 2010-11-13 03:37:31 UTC
From: jrwdlw
Topic: 1840 Message: 1875

I thought I would update the group with my latest progress. I tested Q5, and it was ok. As Steve suggested, I reinstalled Q5 and R22. The TX current dropped from 626 ma to 343 ma. Since that was still higher than normal, I measured all transistor voltages during TX. I found that Q3 had 0 vdc on the base during transmit, while the opposite side of R5 had 14 vdc. Suspecting a short, I removed Q3, tested it (it was ok), and reinstalled it. After that, the base had .72 vdc on TX, and the TX current had dropped to .28 vdc. I guess that was another soldering issue.

After a short victory celebration, I set the PA bias current to .33 vdc. I hooked it up to a dummy load, and ran a wire from my mobile HF antenna to six inches from the dummy load. I had my wife key the mic and count, while I sat in the car checking the frequency and audio quality. The frequency was only 40 Hz off, and the audio sounded great! Unfortunately, I discovered another problem, but I'm going to start a new thread for that.

John

--- In mkars80@yahoogroups.co.uk, John Warner <jrwdlw@...> wrote:
>
> Please DO NOT send a transistor. I get one from Mouser with my next order of
> "goodies".
>
>
> I realized later, that I could have tested the transistor "like two diodes". I
> will try that this evening. Also, I like your idea. I may just solder the
> transistor and resistor back in, and see what happens!
>
> Thanks,
> John
>
>
>
>
> _____
> From: Steve Drury <g6alu@...>
> To: mkars80@...
> Sent: Sun, October 17, 2010 11:00:28 PM
> Subject: Re: [mkars80] Re: High current before adjust PA bias
>
>
> I can supply a new transistor John (let me know if you would like one) but I
> expect it was a small whisp of solder when in circuit which has now cleared
> so that transistor is probably OK.
>
> Steve G6ALU
>
> ----- Original Message -----

> From: "John Warner" <jrwdlw@...>
> To: <mkars80@...>
> Sent: Sunday, October 17, 2010 11:39 PM
> Subject: Re: [mkars80] Re: High current before adjust PA bias
>
> > Mike & Steve,
> >
> > I removed R22 and Q5. R22 is ok, as it measured just slightly under 2k2.
> > Q5 is
> > interesting. The DVM indicates emitter-collector as infinite,
> > emitter-base as
> > 4.8 meg, and base-collector as infinite. Not what I was expecting for the
> > base-collector. I have no idea what a good ZTX651 would measure. I'm
> > wondering
> > if I fried Q5 getting it out, transforming thr shorted condition into an
> > open
> > circuit? Don't know if that's possible, but all the evidence implies the
> > base-collector was shorted while it was in the circuit. I've looked over
> > the
> > board carefully, and I don't see anything else that could have caused it.
> >
> > Anyhow, the next step is to order a new ZTX651 from Mouser, and see if
> > that
> > fixes the problem
> >
> > John
> >
> >
> >
> >
> >
> > _____
> > From: panzerbeeb <mike_mobbs@...>
> > To: mkars80@...
> > Sent: Sun, October 17, 2010 2:14:42 PM
> > Subject: [mkars80] Re: High current before adjust PA bias
> >
> >
> > Hi John,
> >
> > Yes, a senior moment on my part, I meant to say base-collector short on
> > Q5, I
> > don't know why I said emitter :-(
> >
> > Mike G8EEY
> >
> > --- In mkars80@..., John Warner <jrwdlw@> wrote:
> >>
> >> Steve,
> >>

> >> If you read my response to Mike (G8EEY), the resistance across R22 is
> >> less than
> >>
> >> 1 ohm. Based upon your comment, I assume the collector/base shorted.
> >> I'll
> >> check the board and resistor first, and then pull Q5 if required.
> >>
> >> Thanks for the help.
> >> John
> >>
> >>
> >>
> >>
> >> _____
> >> From: Steve Drury <g6alu@>
> >> To: mkars80@...
> >> Sent: Sun, October 17, 2010 12:20:29 PM
> >> Subject: Re: [mkars80] Re: High current before adjust PA bias
> >>
> >>
> >> My guess is Q5 either the wrong way round or a blob of solder collector /
> >> base, check with an ohm meter. Also check that the 22R emitter resistor
> >> has
> >> survived!
> >>
> >> Steve G6ALU
> >>
> >> PS Q5 does get hot in normal operation.
> >>
> >> ----- Original Message -----
> >> From: "panzerbeeb" <mike_mobbs@>
> >> To: <mkars80@...>
> >> Sent: Sunday, October 17, 2010 8:04 PM
> >> Subject: [mkars80] Re: High current before adjust PA bias
> >>
> >> > John,
> >> >
> >> > Is Q5 in the right way round?
> >> > If so then you have a short between Q5 emitter and base, internally, or
> >> > on
> >> > the board somewhere. Looks like where the extra 300mA or so are going.
> >> >
> >> > Mike, G8EEY
> >> >
> >> > --- In mkars80@..., John Warner <jrwdlw@> wrote:
> >> >>
> >> >> Steve,
> >> >>
> >> >> I haven't tried setting the mixer balance, as I haven't got a low
> >> >> power

> >> >> watt
> >> >> meter or scope. I'm going to try the s-meter approach, but I haven't
> >> >> quite
> >> >> worked out the logistics.
> >> >>
> >> >>
> >> >> What I did do, is re-solder T1 and T3. If you recall, I had some
> >> >> problems with
> >> >> the Rx side transformers. After re-soldering, I decided to measure
> >> >> the
> >> >> TX
> >> >> voltage on Q5 and Q9 (power supply = 14.1v):
> >> >>
> >> >> Emitter Base Collector
> >> >> Q5 TX 6.4 7.1 7.1
> >> >> Q9 TX 2.6 3.7 11.1
> >> >>
> >> >> As you can see, Q5 is way out of spec. Any suggestions?
> >> >>
> >> >> Thanks,
> >> >> John
> >> >>
> >> >>
> >> >>
> >> >>
> >> >>
> >> >>
> >> >>
> >> >> _________________________________
> >> >> From: Steve Drury <g6alu@>
> >> >> To: mkars80@...
> >> >> Sent: Sat, October 16, 2010 8:22:21 AM
> >> >> Subject: Re: [mkars80] High current before adjust PA bias
> >> >>
> >> >>
> >> >> John,
> >> >>
> >> >> With R2 set to minimum I would expect the TX current to be around
> >> >> 280mA
> >> >> with
> >> >> 14.5V supply and no modulation. Have you adjusted the mixer ballance -
> >> >> R59 /
> >> >> C103 as per the instructions?
> >> >>
> >> >> Steve G6ALU
> >> >>
> >> >> ----- Original Message -----
> >> >> From: "jrwdlw" <jrwdlw@>
> >> >> To: <mkars80@...>
> >> >> Sent: Saturday, October 16, 2010 3:38 PM

> >> >> Subject: [mkars80] High current before adjust PA bias
> >> >>
> >> >> > I'm trying to adjust the PA bias current. R2 is set to the minimum.
> >> >> > LCD
> >> >> > says 14.5v. Receive current is 128ma. Transmit current with no
> >> >> > microphone (I grounded Relay1/D6) is 626ma. The LED lights, and
> >> >> > there
> >> >> > is
> >> >> > quite an increase in the level of output from the speaker (clicking
> >> >> > that I
> >> >> > believe is caused by the LCD). If I have the microphone connected,
> >> >> > there
> >> >> > is loud feedback.
> >> >> >
> >> >> > Any suggestions?
> >> >> >
> >> >> > Thanks
> >> >> > John
> >> >> >
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1876. Re: L1 to L5 Values

Yahoo group: mkars80
Date: 2010-11-16 08:50:32 UTC
From: hamlab3
Topic: 1872 Message: 1876

Fred,
I quickly tested one sample of T37-6 this morning, I didn't have 33 SWG wire to hand so wound it with 40 turns of 36 SWG (shouldn't have a significant effect).

On a calibrated LCR meter (an old Philips PM6303) it measured 5.3uH, the measuring frequency is only 1kHz.

Using the network analyser and displaying a Smith chart (S11), the value read 4.65 uH at 6MHz, this was stable across the range I checked (300kHz to 10MHz).

I'm not sure why your reading was so low, if you would like to return the toroid to me I can check it on my equipment.

Have you built the radio, and does the VFO adjust OK?

Regards,
Steve G6ALU

--- In mkars80@..., "m0icw" <m0icw@...> wrote:
>
> Morning Steve,
>
> Tks for the info on Inductor values in the MKARS80 circuit.
>
> The LCR that I use, measures at 3 different frequencies, 200kHz, 15kHz
> and 1kHz.
> 200khz is the test frequency used typically for an inductance range of
> 0uH to 0.3mH.
>
> I will be very interested in the results that you obtain next week, on
> the network analyser.
>
> Regards,
>
> Fred M0ICW
>
>
>
> --- In mkars80@....uk, "Steve Drury" <g6alu@> wrote:
> >
> > Morning Fred,
> >
> > Those are the values they calculate to using manufacturers data - what
> > frequency does your LCR meter test at? To some extent the values were
> > arrived at empirically so the circuit operation isn't affected but for
> > interest I will measure a few samples on the network analyser - this

> won't
> > be until next week though when I have access (I don't own one!).
> >
> > The most important thing is the VFO tunes the band required and the
> LPF
> > filters harmonics - and both meet those requirements.
> >
> > Regards,
> > Steve G6ALU
> >
> >
> > ----- Original Message -----
> > From: "m0icw" m0icw@
> > To: mkars80@...
> > Sent: Tuesday, November 09, 2010 9:56 PM
> > Subject: [mkars80] L1 to L5 Values
> >
> >
> > > Hi All,
> > >
> > > Can anyone tell me the Henry values for L1 , 2 ,3 ,and 4 (L5 is
> noted in
> > > Construction Manual as 4.8uH).
> > > When I checked my L5 (40T of 33 SWG ECW on T37-6 toroid), on my
> > > (Calibrated) LCR Meter, I got a reading of
> > > 2.8uH, a long way off the suggested 4.8 uH.
> > > This got me wondering about values for L1 to L4 !!
> > >
> > > 73 de
> > >
> > > Fred M0ICW
> > >
> > >
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> > >
> > > [Non-text portions of this message have been removed]
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> > > Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]

>

1877. Dispaly

Yahoo group: mkars80
Date: 2010-11-16 23:46:00 UTC
From: Dean
Topic: 1877 Message: 1877

Steve,

Being unable to locate a replacement display for my MKARS80, could I buy another one from you?

Dean, N7XG

1878. Re: [mkars80] Dispaly

Yahoo group: mkars80
Date: 2010-11-17 07:16:09 UTC
From: Steve Drury
Topic: 1877 Message: 1878

Hi Dean,

Yes certainly, I will sell it at cost GBP 5.00 - please transfer GBP 5 to
our Paypal account and I will post it.

Regards,
Steve G6ALU

----- Original Message -----
From: "Dean" <dean@...>
To: <mkars80@...>
Sent: Tuesday, November 16, 2010 11:46 PM
Subject: [mkars80] Dispaly

> Steve,
>
> Being unable to locate a replacement display for my MKARS80, could I buy
> another one from you?
>
> Dean, N7XG
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

1879. Re: L1 to L5 Values

Yahoo group: mkars80
Date: 2010-11-18 23:50:57 UTC
From: m0icw
Topic: 1872 Message: 1879

Hi steve,

Yes, I have now completed the radio and the VFO adjusts OK.
I have some 37-6 Toroids in my parts bins, so may try winding on one of those and testing. If it is nearer to the 'empirically' arrived at value suggested in the instructions, then I will swop out and return original to you for analasys. I wont do it right now as it seems not a problem with VFO adjustment, and anyway, as I have hot glued toroids in place, it's a 'if it ain't broke'... situation !
I will let you know my measurement results from my parts box toroids.
Tks for info Steve

Best regards,

Fred M0ICW

--- In mkars80@..., "hamlab3" <g6alu@...> wrote:
>
> Fred,
> I quickly tested one sample of T37-6 this morning, I didn't have 33 SWG wire to hand so wound it with 40 turns of 36 SWG (shouldn't have a significant effect).
>
> On a calibrated LCR meter (an old Philips PM6303) it measured 5.3uH, the measuring frequency is only 1kHz.
>
> Using the network analyser and displaying a Smith chart (S11), the value read 4.65 uH at 6MHz, this was stable across the range I checked (300kHz to 10MHz).
>
> I'm not sure why your reading was so low, if you would like to return the toroid to me I can check it on my equipment.
>
> Have you built the radio, and does the VFO adjust OK?
>
> Regards,
> Steve G6ALU
>
> --- In mkars80@..., "m0icw" <m0icw@> wrote:
> >
> > Morning Steve,
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> > Tks for the info on Inductor values in the MKARS80 circuit.
> >
> > The LCR that I use, measures at 3 different frequencies, 200kHz, 15kHz
> > and 1kHz.
> > 200khz is the test frequency used typically for an inductance range of
> > 0uH to 0.3mH.
> >

> > I will be very interested in the results that you obtain next week, on
> > the network analyser.
> >
> > Regards,
> >
> > Fred M0ICW
> >
> >
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > Morning Fred,
> > >
> > > Those are the values they calculate to using manufacturers data - what
> > > frequency does your LCR meter test at? To some extent the values were
> > > arrived at empirically so the circuit operation isn't affected but for
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> > > be until next week though when I have access (I don't own one!).
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> > > The most important thing is the VFO tunes the band required and the
> > LPF
> > > filters harmonics - and both meet those requirements.
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> > > Regards,
> > > Steve G6ALU
> > >
> > >
> > > ----- Original Message -----
> > > From: "m0icw" m0icw@
> > > To: mkars80@...
> > > Sent: Tuesday, November 09, 2010 9:56 PM
> > > Subject: [mkars80] L1 to L5 Values
> > >
> > >
> > > > Hi All,
> > > >
> > > > Can anyone tell me the Henry values for L1 , 2 ,3 ,and 4 (L5 is
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> > > > Construction Manual as 4.8uH).
> > > > When I checked my L5 (40T of 33 SWG ECW on T37-6 toroid), on my
> > > > (Calibrated) LCR Meter, I got a reading of
> > > > 2.8uH, a long way off the suggested 4.8 uH.
> > > > This got me wondering about values for L1 to L4 !!
> > > >
> > > > 73 de
> > > >
> > > > Fred M0ICW
> > > >
> > > >

> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
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> > > > Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
> >
>

1880. Re: [mkars80] Re: L1 to L5 Values

Yahoo group: mkars80
Date: 2010-11-19 08:03:29 UTC
From: g6alu@tiscali.co.uk
Topic: 1872 Message: 1880

Fred,

I was very surprised the inductor measured so near the calculated value - previously they have measured higher.

If the VFO adjusts OK I'm not concerned.

Steve G6ALU

>----Original Message----
>From: m0icw@...
>Date: 18/11/2010 23:50
>To: <mkars80@...>
>Subj: [mkars80] Re: L1 to L5 Values
>
>Hi steve,
>
>Yes, I have now completed the radio and the VFO adjusts OK.
>I have some 37-6 Toroids in my parts bins, so may try winding on one of those and testing. If it is nearer to the 'empirically' arrived at value suggested in the instructions, then I will swop out and return original to you for analasys. I wont do it right now as it seems not a problem with VFO adjustment, and anyway, as I have hot glued toroids in place, it's a 'if it ain't broke'... situation !

>I will let you know my measurement results from my parts box toroids.

>Tks for info Steve

>

>Best regards,

>

>Fred M0ICW

>

>

>

>--- In mkars80@..., "hamlab3" <g6alu@...> wrote:

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>> Fred,

>> I quickly tested one sample of T37-6 this morning, I didn't have 33 SWG wire to hand so wound it with 40 turns of 36 SWG (shouldn't have a significant effect).

>>

>> On a calibrated LCR meter (an old Philips PM6303) it measured 5.3uH, the measuring frequency is only 1kHz.

>>

>> Using the network analyser and displaying a Smith chart (S11), the value read 4.65 uH at 6MHz, this was stable across the range I checked (300kHz to 10MHz).

>>

>> I'm not sure why your reading was so low, if you would like to return the toroid to me I can check it on my equipment.

>>

>> Have you built the radio, and does the VFO adjust OK?

>>

>> Regards,

>> Steve G6ALU

>>

>> --- In mkars80@..., "m0icw" <m0icw@> wrote:

>> >

>> > Morning Steve,

>> >

>> > Tks for the info on Inductor values in the MKARS80 circuit.

>> >

>> > The LCR that I use, measures at 3 different frequencies, 200kHz, 15kHz

>> > and 1kHz.

>> > 200khz is the test frequency used typically for an inductance range of

>> > 0uH to 0.3mH.

>> >

>> > I will be very interested in the results that you obtain next
week, on

>> > the network analyser.

>> >

>> > Regards,

>> >

>> > Fred M0ICW

>> >

>> >

>> >

>> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:

>> > >

>> > > Morning Fred,

>> > >

>> > > Those are the values they calculate to using manufacturers data
- what

>> > > frequency does your LCR meter test at? To some extent the values
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>> > > arrived at empirically so the circuit operation isn't affected
but for

>> > > interest I will measure a few samples on the network analyser -
this

>> > won't

>> > > be until next week though when I have access (I don't own
one!).

>> > >

>> > > The most important thing is the VFO tunes the band required and
the

>> > LPF

>> > > filters harmonics - and both meet those requirements.

>> > >

>> > > Regards,

>> > > Steve G6ALU

>> > >

>> > >

>> > > ----- Original Message -----

>> > > From: "m0icw" m0icw@

>> > > To: mkars80@...

>> > > Sent: Tuesday, November 09, 2010 9:56 PM

>> > > Subject: [mkars80] L1 to L5 Values

>> > >

>> > >

>> > > > Hi All,

>> > > >

>> > > > Can anyone tell me the Henry values for L1 , 2 ,3 ,and 4 (L5
is

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>> > > > Construction Manual as 4.8uH).

>> > > > When I checked my L5 (40T of 33 SWG ECW on T37-6 toroid), on
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>> > > > (Calibrated) LCR Meter, I got a reading of

>> > > > 2.8uH, a long way off the suggested 4.8 uH.

>> > > > This got me wondering about values for L1 to L4 !!

>> > > >

>> > > > 73 de

>> > > >

>> > > > Fred M0ICW

>> > > >

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>> > > >

>> > > > [Non-text portions of this message have been removed]

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>> > > > Yahoo! Groups Links

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>> > [Non-text portions of this message have been removed]

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>Yahoo! Groups Links

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> http://uk.groups.yahoo.com/group/mkars80/
>

required)

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uk

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> mkars80-unsubscribe@...

>

> http://uk.docs.yahoo.com/info/terms.html
>

>

1881. Connecting the coils / transformers

Yahoo group: mkars80
Date: 2010-11-25 16:18:35 UTC
From: manxmat
Topic: 1881 Message: 1881

I found these to be quite fiddly affairs to solder to the PCB, hope the following tip maybe useful.

One thing I found very helpful in connecting up the coils/transformers with the thinner diameter wire was to make a 'loop' from some of the spare thinner enamelled wire and twist the ends together and solder them - this allowed me to feed ends of the coils/transformers through the loop and push the twisted end through the PCB to draw the correct wire through the PCB.

Best regards

Matty

MD0MAN

1882. Re: Connecting the coils / transformers

Yahoo group: mkars80
Date: 2010-11-27 00:03:28 UTC
From: Ken Pendarvis
Topic: 1881 Message: 1882

That's a good method Matty:

What works well for me is to have a good
quality pair of electronics tweezorsors on hand.
Hold the transformer over the board in one
hand and use the tweezers to guide the thin
wires into the holes.

Another method is to use a small square of
3/32" double sides foam to secure the transformer
to the board. Then use the weezers to guide the
wires into the holes.

In high frequency circuits 15m-10m, above) this is an especially
good method, as keeping the transformer a bit above the board
prevents RF coupling to the board.

73, Ken AD6KA

[Non-text portions of this message have been removed]

1883. Building module by module

Yahoo group: mkars80
Date: 2010-12-12 13:09:25 UTC
From: Eric Söderman
Topic: 1883 Message: 1883

Hello,

We are thinking about building the MKARS80 a project in our club. As I see in the manual for MKARS80, the building is not done module by module with testing in between. I think that is a good way to learn more about the trx. As anyone done it that way? If so, maybe you have some notes about this.

I was thinking something like this:

http://golddredgervideo.com/kc0wox/bitxver3new/newmanual.htm

Thanks in advance.

Eric SA5BKE

1884. Antennas

Yahoo group: mkars80
Date: 2010-12-12 16:40:46 UTC
From: owen.williams59
Topic: 1884 Message: 1884

Hi,

Has anybody tried using a Sandpiper 80m HF mini dipole No 3 with the MKARS 80, if so what are the results?

Owen MW0GMH

1885. Re: [mkars80] Building module by module

Yahoo group: mkars80
Date: 2010-12-14 22:05:47 UTC
From: Steve Drury
Topic: 1883 Message: 1885

Hello Eric,

From the lack of replies it doesn't look as though any one has done it this way.

When I designed the MKARS80 I had to make a decision the best way to build it; I decided on fitting all the components before doing any testing and generally this works well. I understand your reason for building it section by section and exploring each as you go.

If you want to modify the instructions to allow this I can let you have them in Open-office format so you have some where to start from.

One reason I arranged the build as I did was so similar parts could be kept separate in the bags to reduce the chance of build errors.

Regards,

Steve G6ALU

----- Original Message -----
From: "Eric S?derman" <eric@...>
To: <mkars80@...>
Sent: Sunday, December 12, 2010 1:09 PM
Subject: [mkars80] Building module by module

> Hello,
>
> We are thinking about building the MKARS80 a project in our club. As I
> see in the manual for MKARS80, the building is not done module by
> module with testing in between. I think that is a good way to learn
> more about the trx. As anyone done it that way? If so, maybe you have
> some notes about this.
>
> I was thinking something like this:
>
> http://golddredgervideo.com/kc0wox/bitxver3new/newmanual.htm
>
>
> Thanks in advance.
>
> Eric SA5BKE
>
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>
> Yahoo! Groups Links

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>

1886. Merry Xmas

Yahoo group: mkars80
Date: 2010-12-22 15:13:43 UTC
From: robert
Topic: 1886 Message: 1886

I wish you a very happy Christmas and a New Year filled with peace and prosperity.
73
Rob M0TFO

1887. Drilled cases

Yahoo group: mkars80
Date: 2011-01-03 14:09:24 UTC
From: Steve Drury
Topic: 1887 Message: 1887

Is there any one in the UK able to drill MKARS80 cases with reasonable accuracy for re-sale?

I have had several enquiries from those who would rather not or are unable to drill their own, it's not economical to purchase ready drilled cases from the manufacturer.

Thanks,
Steve G6ALU

[Non-text portions of this message have been removed]

1888. 40m

Yahoo group: mkars80
Date: 2011-01-10 21:36:16 UTC
From: Pascal
Topic: 1888 Message: 1888

Hi all,
Do you think this kit could be adapted for the 40m Band ?
73

1889. Re: 40m

Yahoo group: mkars80
Date: 2011-01-10 22:26:09 UTC
From: g4gcl
Topic: 1888 Message: 1889

Hello Pascal.

I'm sure Steve will come back to you about this but it has been a question which has been around since at least February 2009.

I think some people have tried with some success but as far as I am aware there is no official 40M version.

I'm sure you will have replies, sorry I cannot help.

All the very best,

John.
--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Hi all,
> Do you think this kit could be adapted for the 40m Band ?
> 73
>

1890. Re: [mkars80] 40m

Yahoo group: mkars80
Date: 2011-01-10 22:43:00 UTC
From: Steve Drury
Topic: 1888 Message: 1890

Hi Pascal,

I had one working but it didn't have the dynamic range required without adding a volume control - I decided that too many changes were required to make it practical.

Regards,
Steve G6ALU

----- Original Message -----
From: "Pascal" <pascal@...>
To: <mkars80@...>
Sent: Monday, January 10, 2011 9:36 PM
Subject: [mkars80] 40m

> Hi all,
> Do you think this kit could be adapted for the 40m Band ?
> 73
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>

1891. re: [mkars80] Re: 40m

Yahoo group: mkars80
Date: 2011-01-10 22:51:37 UTC
From: Dean Davis
Topic: 1888 Message: 1891

Gang,

Also look for an announcement in the near future for a Bitx40 available from www.qrphits.com

Normal
0

false
false
false

MicrosoftInternetExplorer4

Dean, N7XG

From: "g4gcl" <john@...>
Sent: Monday, January 10, 2011 2:32 PM
To: mkars80@...
Subject: [mkars80] Re: 40m

Hello Pascal.

I'm sure Steve will come back to you about this but it has been a question which has been around since at least February 2009.

I think some people have tried with some success but as far as I am aware there is no official 40M version.

I'm sure you will have replies, sorry I cannot help.

All the very best,

John.
--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Hi all,
> Do you think this kit could be adapted for the 40m Band ?
> 73
>

[Non-text portions of this message have been removed]

1892. Re: [mkars80] 40m

Yahoo group: mkars80
Date: 2011-01-10 22:53:09 UTC
From: G4DFV
Topic: 1888 Message: 1892

Hi Steve,

If the 40m version is impractical, just a thought - what about designing an add-on transvertor to use with the MKARS80?

Duncan G4DFV

[Non-text portions of this message have been removed]

1893. Re: [mkars80] Re: 40m

Yahoo group: mkars80
Date: 2011-01-11 06:57:12 UTC
From: Steve Drury
Topic: 1888 Message: 1893

Dean,
Correction on the URL - http://www.qrpkits.com/

I try and provide value for money, for the QRP kits radio a painted case costs you an extra ?57 + Paypal and shipping fees of ?19 extra.

The problem I had is on a decent antennae the radio completely overloads as it has no IF AGC, on 80M the MKARS80 cured this by moving the AF gain control to the front end and using it as an RF gain therefore keeping the system simple. The alternative is to add an RF gain control... having both RF and AF gain in my mind made the radio too complex but perhaps that's what people want? Perhaps my standards are too high and users will put up with overloading on large signals?

Are there any spectrum analyser plots for the TX output of the BITX20 variants? I don't have one to test but if any one wants to know how clean it is I'm willing to plot it for you - I'm interested myself!

I'm currently working on a non frequency specific design with AGC.....

Steve G6ALU

----- Original Message -----
From: "Dean Davis" <dean@...>
To: <mkars80@...>
Sent: Monday, January 10, 2011 10:51 PM
Subject: re: [mkars80] Re: 40m

> Gang,
>
> Also look for an announcement in the near future for a Bitx40 available
> from www.qrphits.com
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> Normal
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> MicrosoftInternetExplorer4
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> Dean, N7XG
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> ----------
>
> From: "g4gcl" <john@...>
> Sent: Monday, January 10, 2011 2:32 PM
> To: mkars80@...
> Subject: [mkars80] Re: 40m
>
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> Hello Pascal.
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> I'm sure Steve will come back to you about this but it has been a
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> I think some people have tried with some success but as far as I am
> aware there is no official 40M version.
>
> I'm sure you will have replies, sorry I cannot help.
>
> All the very best,
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> John.
> --- In mkars80@..., "Pascal" <pascal@...> wrote:
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>> Hi all,
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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1894. Fw: [mkars80] Re: 40m

Yahoo group: mkars80
Date: 2011-01-12 01:31:42 UTC
From: Ken Pendarvis
Topic: 1894 Message: 1894

>I try and provide value for money, for the QRP kits radio a painted case
>costs you an extra £57 + Paypal and shipping fees of £19 extra.
> Steve G6ALU

And you succeed very well at prviding one of, if not THE best QRP
kits values in it's class on the market, Steve! Well done.
The MKARS80 is a TERRIFIC value
with or without all and any of the the options!

I was lucky to buy both a BITX20A and an MMR40 from qrpkits.com
as "Board & Parts Only" kits before they FORCED you to also buy the
fancy enclosure kit AND the Digital Dial. While I really, really like my BITX20A,
I am not so pleased with the MMR40. Mine is drifty as all get out, even after
warm up, and the PTO tuning leaves a lot of be desired. (So does locating
the SSB/CW switch on the bottom of the PC Board!)
73, Ken AD6KA

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Monday, January 10, 2011 10:57 PM
Subject: Re: [mkars80] Re: 40m

Dean,
Correction on the URL - http://www.qrpkits.com/

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is I'm willing to plot it for you - I'm interested myself!

I'm currently working on a non frequency specific design with AGC.....

Steve G6ALU

----- Original Message -----
From: "Dean Davis" <dean@...>

To: <mkars80@yahoogroups.co.uk>
Sent: Monday, January 10, 2011 10:51 PM
Subject: re: [mkars80] Re: 40m

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> Dean, N7XG
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> From: "g4gcl" <john@...>
> Sent: Monday, January 10, 2011 2:32 PM
> To: mkars80@...
> Subject: [mkars80] Re: 40m
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> I'm sure Steve will come back to you about this but it has been a
> question which has been around since at least February 2009.
>
> I think some people have tried with some success but as far as I am
> aware there is no official 40M version.
>
> I'm sure you will have replies, sorry I cannot help.
>
> All the very best,
>
> John.
> --- In mkars80@yahoogroups.co.uk, "Pascal" <pascal@...> wrote:
>>
>> Hi all,
>> Do you think this kit could be adapted for the 40m Band ?
>> 73
>>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1895. Re: 40m

Yahoo group: mkars80
Date: 2011-01-12 09:01:01 UTC
From: Pascal
Topic: 1888 Message: 1895

Hi Steve,
I understand, so I will begin with the current unit ! A new order soon. Thanks & 73

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Pascal,
>
> I had one working but it didn't have the dynamic range required without
> adding a volume control - I decided that too many changes were required to
> make it practical.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Pascal" <pascal@...>
> To: <mkars80@...>
> Sent: Monday, January 10, 2011 9:36 PM
> Subject: [mkars80] 40m
>
>
> > Hi all,
> > Do you think this kit could be adapted for the 40m Band ?
> > 73
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

1896. re: [mkars80] Re: 40m

Yahoo group: mkars80
Date: 2011-01-12 17:37:09 UTC
From: Dean Davis
Topic: 1888 Message: 1896

Pascal,

I am working with Doug Hendricks and another ham to complete the BitX40 which is similar to the Mkars. We are hoping it will be ready in the next month or so.

From: "Pascal" <pascal@...>
Sent: Wednesday, January 12, 2011 1:07 AM
To: mkars80@...
Subject: [mkars80] Re: 40m

Hi Steve,
I understand, so I will begin with the current unit ! A new order soon. Thanks & 73

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hi Pascal,
>
> I had one working but it didn't have the dynamic range required without
> adding a volume control - I decided that too many changes were required to
> make it practical.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Pascal" <pascal@...>
> To: <mkars80@...>
> Sent: Monday, January 10, 2011 9:36 PM
> Subject: [mkars80] 40m
>
>
> > Hi all,
> > Do you think this kit could be adapted for the 40m Band ?
> > 73
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1897. TX help

Yahoo group: mkars80
Date: 2011-02-05 21:29:17 UTC
From: Paul Wilton
Topic: 1897 Message: 1897

(Apologies if this gets posted twice - posting the message via the web didn't seem to work)

I have completed my MKARS80 but have a problem with TX. As a receiver, I can detect signals down to around -100dBm but I can't get any power out on TX (meter barely moves). I can hear the transmission on a separate receiver.

Using an iPod, I have injected a 440Hz sine wave of about 10mV into the mic jack. I can hear the tone in the headphones.

As I traced the circuit round with my 100MHz scope, I get a nice 10MHz sine into port 6 of T6. I also get a nice VFO signal into port 3 of T4.

I have checked continuity of T6 and T4 via junctions of D13/D14 and D15/D12 for T4 and D14/D15 an D13/D12 for T6.

There is a waveform coming out the mixer. However, it doesn't seem to be around 3.7MHz - it seems closer to the VFO frequency. I have taken a photo of the waveform seem at the junction of L9 and C80 and have put it in the photo's section under my call sign M1CNK.

Firstly does this waveform look reasonable? There seems to be a lot of signal at 6.3MHz. Time base is 100ns/div, voltage 0.2v/div.

Secondly, that is the last place I can see it. If I look at the other end of L9 then the signal is not there. I have checked out L9 - it is not an open circuit and there are no shorts to ground.

I am a bit stuck at the moment. My gut feel is that I have messed up one of the transformers (T4 or T6) but I can't quite see how.

Any help/suggestions gratefully received.

73

Paul
M1CNK

1898. TX not working

Yahoo group: mkars80
Date: 2011-02-05 21:29:28 UTC
From: wilts123
Topic: 1898 Message: 1898

I have completed my MKARS80 but have a problem with TX. As a receiver, I can detect signals down to around -100dBm but I can't get any power out on TX (meter barely moves). I can hear the transmission on a separate receiver.

Using an iPod, I have injected a 440Hz sine wave of about 10mV into the mic jack. I can hear the tone in the headphones.

As I traced the circuit round with my 100MHz scope, I get a nice 10MHz sine into port 6 of T6. I also get a nice VFO signal into port 3 of T4.

I have checked continuity of T6 and T4 via junctions of D13/D14 and D15/D12 for T4 and D14/D15 an D13/D12 for T6.

There is a waveform coming out the mixer. However, it doesn't seem to be around 3.7MHz - it seems closer to the VFO frequency. I have taken a photo of the waveform seem at the junction of L9 and C80 and have put it in the photo's section under my call sign M1CNK.

Firstly does this waveform look reasonable? There seems to be a lot of signal at 6.3MHz. Time base is 100ns/div, voltage 0.2v/div.

Secondly, that is the last place I can see it. If I look at the other end of L9 then the signal is not there. I have checked out L9 - it is not an open circuit and there are no shorts to ground.

I am a bit stuck at the moment. My gut feel is that I have messed up one of the transformers (T4 or T6) but I can't quite see how.

Any help/suggestions gratefully received.

73

Paul
M1CNK

1899. Re: [mkars80] TX help

Yahoo group: mkars80
Date: 2011-02-06 01:45:45 UTC
From: Peter Fraser
Topic: 1897 Message: 1899

Hi Paul

Presuming you have the diodes in correctly, I think your problem lies with one or more of the connections to T4 or T6.

I would suggest you carefully remove all wires from the board and verify that each winding is correct and that the solder on each is making good contact with the magnet wire.

Having done that then return the transformers to the board and try again.

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

----- Original Message -----
From: Paul Wilton
To: mkars80@...
Sent: Sunday, February 06, 2011 8:29 AM
Subject: [mkars80] TX help

(Apologies if this gets posted twice - posting the message via the web didn't seem to work)

I have completed my MKARS80 but have a problem with TX. As a receiver, I can detect signals down to around -100dBm but I can't get any power out on TX (meter barely moves). I can hear the transmission on a separate receiver.

Using an iPod, I have injected a 440Hz sine wave of about 10mV into the mic jack. I can hear the tone in the headphones.

As I traced the circuit round with my 100MHz scope, I get a nice 10MHz sine into port 6 of T6. I also get a nice VFO signal into port 3 of T4.

I have checked continuity of T6 and T4 via junctions of D13/D14 and D15/D12 for T4 and D14/D15 an D13/D12 for T6.

There is a waveform coming out the mixer. However, it doesn't seem to be around 3.7MHz - it seems closer to the VFO frequency. I have taken a photo of the waveform seem at the junction of L9 and C80 and have put it in the photo's section under my call sign M1CNK.

Firstly does this waveform look reasonable? There seems to be a lot of signal at 6.3MHz. Time base is 100ns/div, voltage 0.2v/div.

Secondly, that is the last place I can see it. If I look at the other end of L9 then the signal is not there. I have checked out L9 - it is not an open circuit and there are no shorts to ground.

I am a bit stuck at the moment. My gut feel is that I have messed up one of the transformers (T4 or T6) but I can't quite see how.

Any help/suggestions gratefully received.

73

Paul
M1CNK

[Non-text portions of this message have been removed]

1900. Re: [mkars80] TX not working

Yahoo group: mkars80
Date: 2011-02-06 16:54:08 UTC
From: Steve Drury
Topic: 1898 Message: 1900

Paul,

I've been repairing an MKARS80 today so have been able to do comparisons with your scope trace - I've uploaded my plot into the same folder as yours; you will note they are quite different - appart from the fact you have a decent scope!

As mentioned before check all connections are soldered properly, if so there is little alternative to re-winding the transformers. Note that its not always possible to determine if they are correct by reading them in circuit.

Steve G6ALU

----- Original Message -----
From: "wilts123" <PaulMW@...>
To: <mkars80@...>
Sent: Saturday, February 05, 2011 9:29 PM
Subject: [mkars80] TX not working

>I have completed my MKARS80 but have a problem with TX. As a receiver, I
>can detect signals down to around -100dBm but I can't get any power out on
>TX (meter barely moves). I can hear the transmission on a separate
>receiver.
>
> Using an iPod, I have injected a 440Hz sine wave of about 10mV into the
> mic jack. I can hear the tone in the headphones.
>
> As I traced the circuit round with my 100MHz scope, I get a nice 10MHz
> sine into port 6 of T6. I also get a nice VFO signal into port 3 of T4.
>
> I have checked continuity of T6 and T4 via junctions of D13/D14 and
> D15/D12 for T4 and D14/D15 an D13/D12 for T6.
>
> There is a waveform coming out the mixer. However, it doesn't seem to be
> around 3.7MHz - it seems closer to the VFO frequency. I have taken a
> photo of the waveform seem at the junction of L9 and C80 and have put it
> in the photo's section under my call sign M1CNK.
>
> Firstly does this waveform look reasonable? There seems to be a lot of
> signal at 6.3MHz. Time base is 100ns/div, voltage 0.2v/div.
>
> Secondly, that is the last place I can see it. If I look at the other end
> of L9 then the signal is not there. I have checked out L9 - it is not an
> open circuit and there are no shorts to ground.
>
> I am a bit stuck at the moment. My gut feel is that I have messed up one

> of the transformers (T4 or T6) but I can't quite see how.
>
> Any help/suggestions gratefully received.
>
> 73
>
> Paul
> M1CNK
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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1901. Re: TX help

Yahoo group: mkars80
Date: 2011-02-06 17:48:02 UTC
From: wilts123
Topic: 1897 Message: 1901

Thanks a lot for the advice. I found the problem with a fresh pair of eyes - the ground end of T6 wasn't soldered properly.

73

Paul
--- In mkars80@..., "Peter Fraser" <pfraser@...> wrote:
>
> Hi Paul
>
> Presuming you have the diodes in correctly, I think your problem lies with one or more of the connections to T4 or T6.
>
> I would suggest you carefully remove all wires from the board and verify that each winding is correct and that the solder on each is making good contact with the magnet wire.
>
> Having done that then return the transformers to the board and try again.
>
> 73
> Peter VK3ZPF
> http://vk3zpf.blogspot.com/
>
>
>
>
> ----- Original Message -----
> From: Paul Wilton
> To: mkars80@yahoogroups.co.uk
> Sent: Sunday, February 06, 2011 8:29 AM
> Subject: [mkars80] TX help
>
>
>
> (Apologies if this gets posted twice - posting the message via the web didn't seem to work)
>
> I have completed my MKARS80 but have a problem with TX. As a receiver, I can detect signals down to around -100dBm but I can't get any power out on TX (meter barely moves). I can hear the transmission on a separate receiver.
>
> Using an iPod, I have injected a 440Hz sine wave of about 10mV into the mic jack. I can hear the tone in the headphones.
>
> As I traced the circuit round with my 100MHz scope, I get a nice 10MHz sine into port 6 of T6. I also get a nice VFO signal into port 3 of T4.

>
> I have checked continuity of T6 and T4 via junctions of D13/D14 and D15/D12 for T4 and D14/D15 an D13/D12 for T6.
>
> There is a waveform coming out the mixer. However, it doesn't seem to be around 3.7MHz - it seems closer to the VFO frequency. I have taken a photo of the waveform seem at the junction of L9 and C80 and have put it in the photo's section under my call sign M1CNK.
>
> Firstly does this waveform look reasonable? There seems to be a lot of signal at 6.3MHz. Time base is 100ns/div, voltage 0.2v/div.
>
> Secondly, that is the last place I can see it. If I look at the other end of L9 then the signal is not there. I have checked out L9 - it is not an open circuit and there are no shorts to ground.
>
> I am a bit stuck at the moment. My gut feel is that I have messed up one of the transformers (T4 or T6) but I can't quite see how.
>
> Any help/suggestions gratefully received.
>
> 73
>
> Paul
> M1CNK
>
>
>
> [Non-text portions of this message have been removed]
>

1902. Re: TX help

Yahoo group: mkars80
Date: 2011-02-06 20:39:19 UTC
From: Mike Lichtman
Topic: 1897 Message: 1902

Paul,
Check that you sanded the leads bare of all coils and transformers
using enameled wire. This is a common problem with kit construction.
73 Mike KF6KXG

1903. CW and MKARS80

Yahoo group: mkars80
Date: 2011-02-24 13:33:28 UTC
From: hundkoja
Topic: 1903 Message: 1903

Hi,
I use a straight key and a manipulator with various types of electronic bugs on my main station.
What I need is basicallay a tone generator to deliver the tone needed for CW.
Any tips?

1904. Re: [mkars80] CW and MKARS80

Yahoo group: mkars80
Date: 2011-02-24 18:49:45 UTC
From: Steve Drury
Topic: 1903 Message: 1904

That's correct but it must be a very clean (pure) sinewave or you will generate harmonics of the tone; stations with narrow filters won't know where to tune!

Steve G6ALU

----- Original Message -----
From: "hundkoja" <sm7cff@...>
To: <mkars80@...>
Sent: Thursday, February 24, 2011 1:33 PM
Subject: [mkars80] CW and MKARS80

> Hi,
> I use a straight key and a manipulator with various types of electronic
> bugs on my main station.
> What I need is basicallay a tone generator to deliver the tone needed for
> CW.
> Any tips?
>
>
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>
> Yahoo! Groups Links
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1905. RX not working...

Yahoo group: mkars80
Date: 2011-02-24 21:53:19 UTC
From: Pascal
Topic: 1905 Message: 1905

Hi, just finished to build the kit...and switch on this evening, but not signal received - All voltages are ok, BFO and VFO well adjusted, I can just hear a small signal if I put a generator at the antenna plug...I suspect an issue in the first mixer as I cannot find any 10Mhz signal at the output...I took care of T4 and T6 (very small wires for my eyes!!!), so I don't see where to look for...Any idea will be welcome, thanks

1906. Re: [mkars80] RX not working...

Yahoo group: mkars80
Date: 2011-02-24 21:59:49 UTC
From: Steve Drury
Topic: 1905 Message: 1906

Hello Pascal,

The most likely cause is a poor soldered joint on the mixer transformers, try re-soldering them with a very hot iron to make sure the enamel burns off.

Regards,
Steve G6ALU

----- Original Message -----
From: "Pascal" <pascal@...>
To: <mkars80@...>
Sent: Thursday, February 24, 2011 9:53 PM
Subject: [mkars80] RX not working...

> Hi, just finished to build the kit...and switch on this evening, but not
> signal received - All voltages are ok, BFO and VFO well adjusted, I can
> just hear a small signal if I put a generator at the antenna plug...I
> suspect an issue in the first mixer as I cannot find any 10Mhz signal at
> the output...I took care of T4 and T6 (very small wires for my eyes!!!),
> so I don't see where to look for...Any idea will be welcome, thanks
>
>
>
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>
> Yahoo! Groups Links
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>

1907. Re: CW and MKARS80

Yahoo group: mkars80
Date: 2011-02-25 08:05:08 UTC
From: PE1BWI
Topic: 1903 Message: 1907

--- In mkars80@..., "hundkoja" <sm7cff@...> wrote:
>
Hi,

I made a simple tone generator you can build in the MKARS.You can find it in the files section: simple CW adapter.pdf I have it in use for some time now, no problems or questions about harmonics so far.

73,

Martien PA4H

1908. Re: CW and MKARS80

Yahoo group: mkars80
Date: 2011-02-25 11:25:45 UTC
From: hundkoja
Topic: 1903 Message: 1908

Thanks for the info. I will see if I can find it. I have looked at the CW adapter for the MKARS80, but i find it too expensive and I have already a very good keyer with memory etc.

73
Bengt/SM7CFF

--- In mkars80@yahoogroups.co.uk, "PE1BWI" <sproet01@...> wrote:
>
>
>
> --- In mkars80@yahoogroups.co.uk, "hundkoja" <sm7cff@> wrote:
> >
> Hi,
>
> I made a simple tone generator you can build in the MKARS.You can find it in the files section: simple CW adapter.pdf I have it in use for some time now, no problems or questions about harmonics so far.
>
> 73,
>
> Martien PA4H
>

1909. Re: RX not working...

Yahoo group: mkars80
Date: 2011-02-27 10:06:04 UTC
From: Pascal
Topic: 1905 Message: 1909

Hi,
I doubled check T5 & T4 (easy to do when removing pin 2) and have rebuild carefully T6, but same issue - no signal going out of the quartz filter, so I suppose mixer is not working properly - injecting a sinus signal 3.7Mhz at antenna connector, the signal is horrible after the mixer (VFO signal is clear and same level as the input around 500mV)- I don't see any fault in the components or in the soldered connections...What else to check in order to understand what is faulty ???

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Hello Pascal,
>
> The most likely cause is a poor soldered joint on the mixer transformers,
> try re-soldering them with a very hot iron to make sure the enamel burns
> off.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Pascal" <pascal@...>
> To: <mkars80@...>
> Sent: Thursday, February 24, 2011 9:53 PM
> Subject: [mkars80] RX not working...
>
>
> > Hi, just finished to build the kit...and switch on this evening, but not
> > signal received - All voltages are ok, BFO and VFO well adjusted, I can
> > just hear a small signal if I put a generator at the antenna plug...I
> > suspect an issue in the first mixer as I cannot find any 10Mhz signal at
> > the output...I took care of T4 and T6 (very small wires for my eyes!!!),
> > so I don't see where to look for...Any idea will be welcome, thanks
> >
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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1910. Built MKARS 80 for sale.

Yahoo group: mkars80
Date: 2011-02-27 20:24:56 UTC
From: Rob M0TFO
Topic: 1910 Message: 1910

http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=280636855513&ssPageName=STRK:MESELX:IT

1911. IF xtalfilter

Yahoo group: mkars80
Date: 2011-02-27 20:33:11 UTC
From: sm3gfn
Topic: 1911 Message: 1911

Hi! Does anyone know the BW of the IF xtalfilter? Slope?
SM3GFN Ingvar

1912. Re: [mkars80] Re: RX not working...

Yahoo group: mkars80
Date: 2011-02-27 21:35:15 UTC
From: Steve Drury
Topic: 1905 Message: 1912

Pascal,

I think you have a problem around the mixer, this is a double ballanced mixer so the input signal and the VFO should be much lower at the mixer output.

In the files section of this group there is a plot of the lower copper layer, compare this with the track around the mixer - it is easy to "blob" across two points and cause an issue.

Regards,
Steve G6ALU

----- Original Message -----
From: "Pascal" <pascal@...>
To: <mkars80@...>
Sent: Sunday, February 27, 2011 10:06 AM
Subject: [mkars80] Re: RX not working...

> Hi,
> I doubled check T5 & T4 (easy to do when removing pin 2) and have rebuild
> carefully T6, but same issue - no signal going out of the quartz filter,
> so I suppose mixer is not working properly - injecting a sinus signal
> 3.7Mhz at antenna connector, the signal is horrible after the mixer (VFO
> signal is clear and same level as the input around 500mV)- I don't see any
> fault in the components or in the soldered connections...What else to
> check in order to understand what is faulty ???
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> Hello Pascal,
>>
>> The most likely cause is a poor soldered joint on the mixer transformers,
>> try re-soldering them with a very hot iron to make sure the enamel burns
>> off.
>>
>> Regards,
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Pascal" <pascal@...>
>> To: <mkars80@...>
>> Sent: Thursday, February 24, 2011 9:53 PM
>> Subject: [mkars80] RX not working...
>>
>>

>> > Hi, just finished to build the kit...and switch on this evening, but
>> > not
>> > signal received - All voltages are ok, BFO and VFO well adjusted, I can
>> > just hear a small signal if I put a generator at the antenna plug...I
>> > suspect an issue in the first mixer as I cannot find any 10Mhz signal
>> > at
>> > the output...I took care of T4 and T6 (very small wires for my
>> > eyes!!!),
>> > so I don't see where to look for...Any idea will be welcome, thanks
>> >
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>> > Yahoo! Groups Links
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1913. Re: [mkars80] IF xtalfilter

Yahoo group: mkars80
Date: 2011-02-27 21:41:28 UTC
From: Steve Drury
Topic: 1911 Message: 1913

Hi Ingvar,

The filter bandwidth should be about 2.7kHz, slope is sharp on the BFO side
and less sharp on the low (audio HF) side. Sorry I can't give you any
absolute figures but you should find the performance quite good.

Steve G6ALU

----- Original Message -----
From: "sm3gfn" <sm3gfn@...>
To: <mkars80@...>
Sent: Sunday, February 27, 2011 8:33 PM
Subject: [mkars80] IF xtalfilter

> Hi! Does anyone know the BW of the IF xtalfilter? Slope?
> SM3GFN Ingvar
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

1914. Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-01 09:35:27 UTC
From: Robert
Topic: 1905 Message: 1914

Hi, silly thought, but have you tried replacing the mixer diodes?
Bob.

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Hi,
> I doubled check T5 & T4 (easy to do when removing pin 2) and have rebuild carefully T6, but same issue - no signal going out of the quartz filter, so I suppose mixer is not working properly - injecting a sinus signal 3.7Mhz at antenna connector, the signal is horrible after the mixer (VFO signal is clear and same level as the input around 500mV)- I don't see any fault in the components or in the soldered connections...What else to check in order to understand what is faulty ???
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Hello Pascal,
> >
> > The most likely cause is a poor soldered joint on the mixer transformers,
> > try re-soldering them with a very hot iron to make sure the enamel burns
> > off.
> >
> > Regards,
> > Steve G6ALU
> >
> > ----- Original Message -----
> > From: "Pascal" <pascal@>
> > To: <mkars80@...>
> > Sent: Thursday, February 24, 2011 9:53 PM
> > Subject: [mkars80] RX not working...
> >
> >
> > > Hi, just finished to build the kit...and switch on this evening, but not
> > > signal received - All voltages are ok, BFO and VFO well adjusted, I can
> > > just hear a small signal if I put a generator at the antenna plug...I
> > > suspect an issue in the first mixer as I cannot find any 10Mhz signal at
> > > the output...I took care of T4 and T6 (very small wires for my eyes!!!),
> > > so I don't see where to look for...Any idea will be welcome, thanks
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> > > Yahoo! Groups Links
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>

1915. Notch filter and AGC

Yahoo group: mkars80
Date: 2011-03-03 19:27:34 UTC
From: Mart Seger
Topic: 1915 Message: 1915

Hello!

I have bought and built a Mkars80 kit and it worked right from the get go. I'm now building a cooler case and adding extra features to the Mkars80.

I would like to build a notch filter, as a matter a fact, i already built one, but it is very noisy and goes oscillating very easily, its this one:
http://www.zerobeat.net/g3ycc/notch1.gif

I also would like to add a proper AGC to my Mkars80, i have tried the PA0RCL and G8EEY mods with no success. :(

1916. Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-05 21:38:34 UTC
From: Pascal
Topic: 1905 Message: 1916

Hi,
Yes I did....
But now I can trace the input signal from the antenna plug to the low frequency amplifier, but it seems to disapear after C39 - a 1khz 200mV at input of C39 gives nothing after - I changed C39 with another capacitor, but no more signal...strange...Q6 voltages are right.

--- In mkars80@..., "Robert" <clayro@...> wrote:
>
> Hi, silly thought, but have you tried replacing the mixer diodes?
> Bob.
>
> --- In mkars80@..., "Pascal" <pascal@> wrote:
> >
> > Hi,
> > I doubled check T5 & T4 (easy to do when removing pin 2) and have rebuild carefully T6, but same issue - no signal going out of the quartz filter, so I suppose mixer is not working properly - injecting a sinus signal 3.7Mhz at antenna connector, the signal is horrible after the mixer (VFO signal is clear and same level as the input around 500mV)- I don't see any fault in the components or in the soldered connections...What else to check in order to understand what is faulty ???
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > Hello Pascal,
> > >
> > > The most likely cause is a poor soldered joint on the mixer transformers,
> > > try re-soldering them with a very hot iron to make sure the enamel burns
> > > off.
> > >
> > > Regards,
> > > Steve G6ALU
> > >
> > > ----- Original Message -----
> > > From: "Pascal" <pascal@>
> > > To: <mkars80@...>
> > > Sent: Thursday, February 24, 2011 9:53 PM
> > > Subject: [mkars80] RX not working...
> > >
> > >
> > > > Hi, just finished to build the kit...and switch on this evening, but not
> > > > signal received - All voltages are ok, BFO and VFO well adjusted, I can
> > > > just hear a small signal if I put a generator at the antenna plug...I
> > > > suspect an issue in the first mixer as I cannot find any 10Mhz signal at
> > > > the output...I took care of T4 and T6 (very small wires for my eyes!!!),
> > > > so I don't see where to look for...Any idea will be welcome, thanks

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1917. Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-06 10:27:28 UTC
From: Pascal
Topic: 1905 Message: 1917

I just found the fault...., defect PCB under Q6...a very light short circuit between Base connection and Ground , on component side (not made with my welding as found on opposite side) - impossible to see without removing Q6 ... more than 10 hours to solve this fault. Hope no more issue when I will test the transmit function. 73 to all.

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Hi,
> Yes I did....
> But now I can trace the input signal from the antenna plug to the low frequency amplifier, but it seems to disapear after C39 - a 1khz 200mV at input of C39 gives nothing after - I changed C39 with another capacitor, but no more signal...strange...Q6 voltages are right.
>
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> --- In mkars80@..., "Robert" <clayro@> wrote:
> >
> > Hi, silly thought, but have you tried replacing the mixer diodes?
> > Bob.
> >
> > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > >
> > > Hi,
> > > I doubled check T5 & T4 (easy to do when removing pin 2) and have rebuild carefully T6, but same issue - no signal going out of the quartz filter, so I suppose mixer is not working properly - injecting a sinus signal 3.7Mhz at antenna connector, the signal is horrible after the mixer (VFO signal is clear and same level as the input around 500mV)- I don't see any fault in the components or in the soldered connections...What else to check in order to understand what is faulty ???
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> > > > try re-soldering them with a very hot iron to make sure the enamel burns
> > > > off.
> > > >
> > > > Regards,
> > > > Steve G6ALU
> > > >
> > > > ----- Original Message -----
> > > > From: "Pascal" <pascal@>
> > > > To: <mkars80@yahoogroups.co.uk>
> > > > Sent: Thursday, February 24, 2011 9:53 PM

> > > > Subject: [mkars80] RX not working...
> > > >
> > > >
> > > > > Hi, just finished to build the kit...and switch on this evening, but not
> > > > > signal received - All voltages are ok, BFO and VFO well adjusted, I can
> > > > > just hear a small signal if I put a generator at the antenna plug...I
> > > > > suspect an issue in the first mixer as I cannot find any 10Mhz signal at
> > > > > the output...I took care of T4 and T6 (very small wires for my eyes!!!),
> > > > > so I don't see where to look for...Any idea will be welcome, thanks
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1918. Re: [mkars80] Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-06 10:54:34 UTC
From: Steve Drury
Topic: 1905 Message: 1918

I'm glad you found it Pascal, was it copper or the solder layer - the PCBs are electrically tested during manufacture but I suspect its before the HASL (hot air solder leveled) is applied rather than after.

Sorry you had a problem,

Steve G6ALU

----- Original Message -----
From: "Pascal" <pascal@...>
To: <mkars80@...>
Sent: Sunday, March 06, 2011 10:27 AM
Subject: [mkars80] Re: RX not working...

>
> I just found the fault...., defect PCB under Q6...a very light short
> circuit between Base connection and Ground , on component side (not made
> with my welding as found on opposite side) - impossible to see without
> removing Q6 ... more than 10 hours to solve this fault. Hope no more issue
> when I will test the transmit function. 73 to all.
>
>
> --- In mkars80@..., "Pascal" <pascal@...> wrote:
>>
>> Hi,
>> Yes I did....
>> But now I can trace the input signal from the antenna plug to the low
>> frequency amplifier, but it seems to disapear after C39 - a 1khz 200mV at
>> input of C39 gives nothing after - I changed C39 with another capacitor,
>> but no more signal...strange...Q6 voltages are right.
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>> --- In mkars80@..., "Robert" <clayro@> wrote:
>> >
>> > Hi, silly thought, but have you tried replacing the mixer diodes?
>> > Bob.
>> >
>> > --- In mkars80@..., "Pascal" <pascal@> wrote:
>> > >
>> > > Hi,
>> > > I doubled check T5 & T4 (easy to do when removing pin 2) and have
>> > > rebuild carefully T6, but same issue - no signal going out of the
>> > > quartz filter, so I suppose mixer is not working properly - injecting
>> > > a sinus signal 3.7Mhz at antenna connector, the signal is horrible
>> > > after the mixer (VFO signal is clear and same level as the input
>> > > around 500mV)- I don't see any fault in the components or in the

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>> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
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>> > > > Hello Pascal,
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>> > > > The most likely cause is a poor soldered joint on the mixer
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>> > > > ----- Original Message -----
>> > > > From: "Pascal" <pascal@>
>> > > > To: <mkars80@...>
>> > > > Sent: Thursday, February 24, 2011 9:53 PM
>> > > > Subject: [mkars80] RX not working...
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1919. Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-06 13:14:11 UTC
From: Pascal
Topic: 1905 Message: 1919

not easy to say, as it was really thin (visible with a glass, not with my eyes !), but i remenber to have seen the green varnish over the small link.

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> I'm glad you found it Pascal, was it copper or the solder layer - the PCBs
> are electrically tested during manufacture but I suspect its before the HASL
> (hot air solder leveled) is applied rather than after.
>
> Sorry you had a problem,
>
> Steve G6ALU
>
> ----- Original Message -----
> From: "Pascal" <pascal@...>
> To: <mkars80@...>
> Sent: Sunday, March 06, 2011 10:27 AM
> Subject: [mkars80] Re: RX not working...
>
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> >
> > I just found the fault...., defect PCB under Q6...a very light short
> > circuit between Base connection and Ground , on component side (not made
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> > > --- In mkars80@..., "Pascal" <pascal@> wrote:
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> > >> input of C39 gives nothing after - I changed C39 with another capacitor,
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> > >> > Hi, silly thought, but have you tried replacing the mixer diodes?
> > >> > Bob.
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> >> > > Hi,
> >> > > I doubled check T5 & T4 (easy to do when removing pin 2) and have
> >> > > rebuild carefully T6, but same issue - no signal going out of the
> >> > > quartz filter, so I suppose mixer is not working properly - injecting
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> >> > > > Hello Pascal,
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> >> > > > The most likely cause is a poor soldered joint on the mixer
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> >> > > > burns
> >> > > > off.
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> >> > > > Regards,
> >> > > > Steve G6ALU
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> >> > > > ----- Original Message -----
> >> > > > From: "Pascal" <pascal@>
> >> > > > To: <mkars80@yahoogroups.co.uk>
> >> > > > Sent: Thursday, February 24, 2011 9:53 PM
> >> > > > Subject: [mkars80] RX not working...
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> >> > > > > Hi, just finished to build the kit...and switch on this evening,
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1920. Re: [mkars80] Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-06 14:37:12 UTC
From: Steve Drury
Topic: 1905 Message: 1920

OK, sorry to say it must have been a fault in the PCB.

Please accept our appologies Pascal, to my knowledgethis is the first PCB
fault. I have had excelent serice from the manufacturer in the past.

Regards,
Steve G6ALU

----- Original Message -----
From: "Pascal" <pascal@...>
To: <mkars80@...>
Sent: Sunday, March 06, 2011 1:14 PM
Subject: [mkars80] Re: RX not working...

> not easy to say, as it was really thin (visible with a glass, not with my
> eyes !), but i remenber to have seen the green varnish over the small
> link.
>
> --- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>>
>> I'm glad you found it Pascal, was it copper or the solder layer - the
>> PCBs
>> are electrically tested during manufacture but I suspect its before the
>> HASL
>> (hot air solder leveled) is applied rather than after.
>>
>> Sorry you had a problem,
>>
>> Steve G6ALU
>>
>> ----- Original Message -----
>> From: "Pascal" <pascal@...>
>> To: <mkars80@...>
>> Sent: Sunday, March 06, 2011 10:27 AM
>> Subject: [mkars80] Re: RX not working...
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>> >
>> > I just found the fault...., defect PCB under Q6...a very light short
>> > circuit between Base connection and Ground , on component side (not
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>> > removing Q6 ... more than 10 hours to solve this fault. Hope no more
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>> > when I will test the transmit function. 73 to all.
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>> >> > > > Hello Pascal,
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>> >> > > > The most likely cause is a poor soldered joint on the mixer
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>> >> > > > Steve G6ALU
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>> >> > > > ----- Original Message -----
>> >> > > > From: "Pascal" <pascal@>
>> >> > > > To: <mkars80@...>
>> >> > > > Sent: Thursday, February 24, 2011 9:53 PM

>> >> > > > Subject: [mkars80] RX not working...
>> >> > > >
>> >> > > >
>> >> > > > > Hi, just finished to build the kit...and switch on this
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1921. Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-06 18:15:27 UTC
From: Pascal
Topic: 1905 Message: 1921

Hi Dave
Don't care a lot about that - this may happen - except this point the PCB is of good quality, easy to weld - the main thing is to find the fault - I lost too much time thinking about a mixer issue - I was too lucky with previous kits which works at first time ! - a suggestion about the kit documentation : a sheet with photos of what we must find on a scope at several location according to a given input signal would help to check the circuit. - TX is working , I have now to install the pcb inside the box - I will also add a speech processor and a VOX inside. I will also add a PTT switch on the box. If it works as I wish, I will try to use in my car as the small size and the front location of the control knobs make it convinient to use as mobile. I don't hope to work long distance, but listening and may be working local contacts would be enough. Thanks and 73 - Pascal
www.f6ehp.fr

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> OK, sorry to say it must have been a fault in the PCB.
>
> Please accept our appologies Pascal, to my knowledgethis is the first PCB
> fault. I have had excelent serice from the manufacturer in the past.
>
> Regards,
> Steve G6ALU
>
> ----- Original Message -----
> From: "Pascal" <pascal@...>
> To: <mkars80@...>
> Sent: Sunday, March 06, 2011 1:14 PM
> Subject: [mkars80] Re: RX not working...
>
>
> > not easy to say, as it was really thin (visible with a glass, not with my
> > eyes !), but i remenber to have seen the green varnish over the small
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> >> Sorry you had a problem,
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> >> Steve G6ALU

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> >> ----- Original Message -----
> >> From: "Pascal" <pascal@>
> >> To: <mkars80@yahoogroups.co.uk>
> >> Sent: Sunday, March 06, 2011 10:27 AM
> >> Subject: [mkars80] Re: RX not working...
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> >> > I just found the fault...., defect PCB under Q6...a very light short
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> >> > --- In mkars80@..., "Pascal" <pascal@> wrote:
> >> >>
> >> >> Hi,
> >> >> Yes I did....
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> >> >> > Hi, silly thought, but have you tried replacing the mixer diodes?
> >> >> > Bob.
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> >> >> > --- In mkars80@..., "Pascal" <pascal@> wrote:
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> >> >> > > Hi,
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> >> >> > > is faulty ???
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> >> >> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:

> >> >> > > >
> >> >> > > > Hello Pascal,
> >> >> > > >
> >> >> > > > The most likely cause is a poor soldered joint on the mixer
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> >> >> > > > ----- Original Message -----
> >> >> > > > From: "Pascal" <pascal@>
> >> >> > > > To: <mkars80@...>
> >> >> > > > Sent: Thursday, February 24, 2011 9:53 PM
> >> >> > > > Subject: [mkars80] RX not working...
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1922. Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-09 07:24:53 UTC
From: lc0tc
Topic: 1905 Message: 1922

Always horrible finding these sorts of faults.
This brings to mind a re-phrasing of "Occams razor"
"Always look for the most simple explanation!"

That doesn't mean to say they are always the easiest faults to find.

C'est Bon Pascal

Peter, LB0K - G8CKB
Forland, 5379, Sotra

1923. Digimodes interface

Yahoo group: mkars80
Date: 2011-03-09 19:33:07 UTC
From: Jes
Topic: 1923 Message: 1923

I would like to build an interface for using the mkars80 with wspr and other digimodes,has anyone got any schems for one?Thanks...Jes - m0jsw

1924. Re: [mkars80] Digimodes interface

Yahoo group: mkars80
Date: 2011-03-09 19:39:37 UTC
From: Ken Pendarvis
Topic: 1923 Message: 1924

Great intefacing circuits here:
http://www.qsl.net/wm2u/interface.html
From the one-transistor one to the more complicated/better
ones with opto isloators.
GL es 73. Ken AD6KA/5R8GQ

----- Original Message -----
From: Jes
To: mkars80@...
Sent: Wednesday, March 09, 2011 11:33 AM
Subject: [mkars80] Digimodes interface

I would like to build an interface for using the mkars80 with wspr and other digimodes,has anyone got any schems for one?Thanks...Jes - m0jsw

[Non-text portions of this message have been removed]

1925. Re: Digimodes interface

Yahoo group: mkars80
Date: 2011-03-09 19:49:33 UTC
From: Jes
Topic: 1923 Message: 1925

Thanks Ken.I will give that a good read.73..Jes

--- In mkars80@yahoogroups.co.uk, "Ken Pendarvis" <kenp@...> wrote:
>
> Great intefacing circuits here:
> http://www.qsl.net/wm2u/interface.html
> From the one-transistor one to the more complicated/better
> ones with opto isloators.
> GL es 73. Ken AD6KA/5R8GQ
>
>
> ----- Original Message -----
> From: Jes
> To: mkars80@...
> Sent: Wednesday, March 09, 2011 11:33 AM
> Subject: [mkars80] Digimodes interface
>
>
>
> I would like to build an interface for using the mkars80 with wspr and other
digimodes,has anyone got any schems for one?Thanks...Jes - m0jsw
>
>
>
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>
> [Non-text portions of this message have been removed]
>

1926. Re: [mkars80] Digimodes interface

Yahoo group: mkars80
Date: 2011-03-09 20:29:42 UTC
From: Steve Bell
Topic: 1923 Message: 1926

I've built a circuit utilising 2 transformers from Maplin and an opto isolator, details here http://www.m0kgk.co.uk/psk31.php.

I've not used my MKARS80 for digital modes, but there is one thing to beware of. The PA FET heatsinking and the free space inside is suitable for SSB or CW, but the on time is much longer with digital modes so it will warm up more. Phil posted on here some time back when using his MKARS80 for PSK31 that he had some frequency drift. Fitting a small fan inside the case cured the problem.

Steve 2E0SGB

On 9 Mar 2011, at 19:33, Jes wrote:

> I would like to build an interface for using the mkars80 with wspr
> and other digimodes,has anyone got any schems for one?Thanks...Jes -
> m0jsw
>
>

1927. Re: [mkars80] Digimodes interface

Yahoo group: mkars80
Date: 2011-03-09 21:43:14 UTC
From: Steve Drury
Topic: 1923 Message: 1927

I ran my MKARS80 off a battery and made a direct connection, some transformers I've used in the past are Farnell part number 1130842 @ ?1.85.

Steve G6ALU

On 09/03/2011 20:29, Steve Bell wrote:
> I've built a circuit utilising 2 transformers from Maplin and an opto
> isolator, details here http://www.m0kgk.co.uk/psk31.php.
>
> I've not used my MKARS80 for digital modes, but there is one thing to
> beware of. The PA FET heatsinking and the free space inside is
> suitable for SSB or CW, but the on time is much longer with digital
> modes so it will warm up more. Phil posted on here some time back when
> using his MKARS80 for PSK31 that he had some frequency drift. Fitting
> a small fan inside the case cured the problem.
>
> Steve 2E0SGB
>
>
> On 9 Mar 2011, at 19:33, Jes wrote:
>
>> I would like to build an interface for using the mkars80 with wspr
>> and other digimodes,has anyone got any schems for one?Thanks...Jes -
>> m0jsw
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1497/3494 - Release Date: 03/09/11
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1928. Mixer balance

Yahoo group: mkars80
Date: 2011-03-12 17:36:57 UTC
From: hundkoja
Topic: 1928 Message: 1928

I can not get the carrier down to zero (or close to) It is very strong when I listen in my main station. The SSB signal is terrible because of the strong carrier.
Have made a new T6, carefully soldered the wires. Did not help. What to do? Pse see picture marked SM7CFF from osc screen.

1929. Re: RX not working...

Yahoo group: mkars80
Date: 2011-03-12 17:59:57 UTC
From: Pascal
Topic: 1905 Message: 1929

Right, Peter ! Now the kit is finished, seems to work well, I have to test it on the air.
73

--- In mkars80@..., "lc0tc" <lb0k@...> wrote:
>
> Always horrible finding these sorts of faults.
> This brings to mind a re-phrasing of "Occams razor"
> "Always look for the most simple explanation!"
>
> That doesn't mean to say they are always the easiest faults to find.
>
> C'est Bon Pascal
>
> Peter, LB0K - G8CKB
> Forland, 5379, Sotra
>

1930. Re: [mkars80] Mixer balance

Yahoo group: mkars80
Date: 2011-03-12 22:22:03 UTC
From: Steve Drury
Topic: 1928 Message: 1930

Hi,

Can you tell me what amplitude the waveform is - do you get any reading on your power meter with PTT pressed but no modulation?

There is very little that can cause an imbalance; D10, D11, C90, C103, R59, C21, C29. Does C103 and R59 have any effect and if so is R59 adjusted somewhere in the centre of its range? Remember it is a multiturn control, you will need to measure it to know when its near the centre.

Regards,
Steve G6ALU

On 12/03/2011 17:36, hundkoja wrote:
> I can not get the carrier down to zero (or close to) It is very strong when I listen in my main station. The SSB signal is terrible because of the strong carrier.
> Have made a new T6, carefully soldered the wires. Did not help. What to do? Pse see picture marked SM7CFF from osc screen.
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3501 - Release Date: 03/11/11
>
>

1931. Re: Mixer balance

Yahoo group: mkars80
Date: 2011-03-13 23:39:36 UTC
From: Jonathan point
Topic: 1928 Message: 1931

Be careful trying to null the carrier using a receiver. Even with 60dB of suppression, you'll have millivolts of carrier - enough to peg your receiver meter over S9+20dB.

Use a power meter with a low power scale, or a CRO if you have one. Otherwise, try shorting the receiver input with a 3" loop of wire and try again. If the signal level is too high, just twist the loop into smaller and smaller areas until it works. I would set the loop so you get <S9 with a whistle, then it should be easy to adjust the carrier. The carrier should end up below S3 with 36-40dB carrier suppression.

Watch out though - many inexpensive receivers aren't well-enough shielded to do this and will just overload anyway. You can try taking the MKARS80 to the kitchen table for example, and monitoring from the shack. It takes 2 people and a lot of yelling though!

Best of luck =]

Jon Point
VK2JDP

--- In mkars80@..., "hundkoja" <sm7cff@...> wrote:
>
> I can not get the carrier down to zero (or close to) It is very strong when I listen in my main station. The SSB signal is terrible because of the strong carrier.
> Have made a new T6, carefully soldered the wires. Did not help. What to do? Pse see picture marked SM7CFF from osc screen.
>

1932. Re: [mkars80] Mixer balance

Yahoo group: mkars80
Date: 2011-03-14 10:05:40 UTC
From: Bengt Johansson
Topic: 1928 Message: 1932

Thanks Steve,
I have added 2 pictures.
1/ No mod (Mike shortcircuited) 0,1 microSec/div, 50 mV/div
2/ Speaking a long word "Beeeee". 2 m(milli)Sec/div, 2 V/div
Do these values look OK to you?

Testing with a dummy load and listening to the signal on my main station, it does not sound so bad!
Maybe the carrier level is as low as it can get? I don't hear any carrier "on the air".

I could not see any movement of the needle om my MFJ 971 tuner when in transmit mode without modulation.

Regards
Bengt/SM7CFF
----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Saturday, March 12, 2011 11:22 PM
Subject: Re: [mkars80] Mixer balance

Hi,

Can you tell me what amplitude the waveform is - do you get any reading on your power meter with PTT pressed but no modulation?

There is very little that can cause an imbalance; D10, D11, C90, C103, R59, C21, C29. Does C103 and R59 have any effect and if so is R59 adjusted somewhere in the centre of its range? Remember it is a multiturn control, you will need to measure it to know when its near the centre.

Regards,
Steve G6ALU

On 12/03/2011 17:36, hundkoja wrote:
> I can not get the carrier down to zero (or close to) It is very strong when I listen in my main station. The SSB signal is terrible because of the strong carrier.
> Have made a new T6, carefully soldered the wires. Did not help. What to do? Pse see picture marked SM7CFF from osc screen.
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3501 - Release Date: 03/11/11
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>

[Non-text portions of this message have been removed]

1933. Re: Mixer balance

Yahoo group: mkars80
Date: 2011-03-14 10:36:24 UTC
From: Bengt Johansson
Topic: 1928 Message: 1933

Thanks Jon,
I have used a CRO and you can see the result in the photo sectíon.
1/ No mod (Mike shortcircuited) 0,1 microSec/div, 50 mV/div
2/ Speaking a long word "Beeeee". 2 m(milli)Sec/div, 2 V/div

Does it look OK to you?

Bengt/SM7CFF

--- In mkars80@..., "Jonathan point" <jonpoint@...> wrote:
>
> Be careful trying to null the carrier using a receiver. Even with 60dB of suppression, you'll have millivolts of carrier - enough to peg your receiver meter over S9+20dB.
>
> Use a power meter with a low power scale, or a CRO if you have one. Otherwise, try shorting the receiver input with a 3" loop of wire and try again. If the signal level is too high, just twist the loop into smaller and smaller areas until it works. I would set the loop so you get <S9 with a whistle, then it should be easy to adjust the carrier. The carrier should end up below S3 with 36-40dB carrier suppression.
>
> Watch out though - many inexpensive receivers aren't well-enough shielded to do this and will just overload anyway. You can try taking the MKARS80 to the kitchen table for example, and monitoring from the shack. It takes 2 people and a lot of yelling though!
>
> Best of luck =]
>
> Jon Point
> VK2JDP
>
> --- In mkars80@..., "hundkoja" <sm7cff@> wrote:
> >
> > I can not get the carrier down to zero (or close to) It is very strong when I listen in my main station. The SSB signal is terrible because of the strong carrier.
> > Have made a new T6, carefully soldered the wires. Did not help. What to do? Pse see picture marked SM7CFF from osc screen.
> >
>

1934. Mixer balance

Yahoo group: mkars80
Date: 2011-03-14 10:52:48 UTC
From: Bengt Johansson
Topic: 1928 Message: 1934

Hi,
I will measure and find the mid point of R59. C103 has a lot of effect on the carrier.
Reacts quickly.
Pse see pictures measured on the output using CRO

1/ No mod (Mike shortcircuited) 0,1 microSec/div, 50 mV/div
2/ Speaking a long word "Beeeee". 2 m(milli)Sec/div, 2 V/div

Bengt/SM7CFF

1935. Re: Mixer balance

Yahoo group: mkars80
Date: 2011-03-14 22:34:22 UTC
From: Jonathan point
Topic: 1928 Message: 1935

Bengt,

Looks OK. You have about 40dB carrier suppression. Time to enjoy the MK' =]

Regards,

Jon Point
VK2JDP

--- In mkars80@..., "Jonathan point" <jonpoint@...> wrote:
>
> Be careful trying to null the carrier using a receiver. Even with 60dB of suppression, you'll have millivolts of carrier - enough to peg your receiver meter over S9+20dB.
>
> Use a power meter with a low power scale, or a CRO if you have one. Otherwise, try shorting the receiver input with a 3" loop of wire and try again. If the signal level is too high, just twist the loop into smaller and smaller areas until it works. I would set the loop so you get <S9 with a whistle, then it should be easy to adjust the carrier. The carrier should end up below S3 with 36-40dB carrier suppression.
>
> Watch out though - many inexpensive receivers aren't well-enough shielded to do this and will just overload anyway. You can try taking the MKARS80 to the kitchen table for example, and monitoring from the shack. It takes 2 people and a lot of yelling though!
>
> Best of luck =]
>
> Jon Point
> VK2JDP
>
> --- In mkars80@yahoogroups.co.uk, "hundkoja" <sm7cff@> wrote:
> >
> > I can not get the carrier down to zero (or close to) It is very strong when I listen in my main station. The SSB signal is terrible because of the strong carrier.
> > Have made a new T6, carefully soldered the wires. Did not help. What to do? Pse see picture marked SM7CFF from osc screen.
> >
>

1936. Re: [mkars80] Re: Mixer balance

Yahoo group: mkars80
Date: 2011-03-15 08:11:17 UTC
From: Bengt Johansson
Topic: 1928 Message: 1936

Thanks Jon,
I will try to get on the air asap.
Have built a tone generator to try CW. I prefer CW to SSB.

Regards
Bengt/SM7CFF
----- Original Message -----
From: Jonathan point
To: mkars80@...
Sent: Monday, March 14, 2011 11:34 PM
Subject: [mkars80] Re: Mixer balance

Bengt,

Looks OK. You have about 40dB carrier suppression. Time to enjoy the MK' =]

Regards,

Jon Point
VK2JDP

--- In mkars80@..., "Jonathan point" <jonpoint@...> wrote:
>
> Be careful trying to null the carrier using a receiver. Even with 60dB of suppression, you'll have millivolts of carrier - enough to peg your receiver meter over S9+20dB.
>
> Use a power meter with a low power scale, or a CRO if you have one. Otherwise, try shorting the receiver input with a 3" loop of wire and try again. If the signal level is too high, just twist the loop into smaller and smaller areas until it works. I would set the loop so you get <S9 with a whistle, then it should be easy to adjust the carrier. The carrier should end up below S3 with 36-40dB carrier suppression.
>
> Watch out though - many inexpensive receivers aren't well-enough shielded to do this and will just overload anyway. You can try taking the MKARS80 to the kitchen table for example, and monitoring from the shack. It takes 2 people and a lot of yelling though!
>
> Best of luck =]
>
> Jon Point
> VK2JDP
>
> --- In mkars80@..., "hundkoja" <sm7cff@> wrote:
> >
> > I can not get the carrier down to zero (or close to) It is very strong when I listen in my main station. The SSB signal is terrible because of the strong carrier.
> > Have made a new T6, carefully soldered the wires. Did not help. What to do? Pse see

picture marked SM7CFF from osc screen.
> >
>

[Non-text portions of this message have been removed]

1937. VFO stabilisation

Yahoo group: mkars80
Date: 2011-03-15 20:41:19 UTC
From: Pascal
Topic: 1937 Message: 1937

Hi - During the first 15 mn , after a cold start, RX on, the Huff and Puff works well, but suddenly the frequency jumps down by 2khz. That may happen 2 or 3 times , then the Huff and Puff stabilisation becomes right. Has anyone seen the same thing ? Can I do some improvement ? 73 to all.

1938. PTT Delay

Yahoo group: mkars80
Date: 2011-03-19 16:02:24 UTC
From: g3sew
Topic: 1938 Message: 1938

After I press the PTT on the MKARS there seems to be a delay of one second or more before any RF appears at the output (even though the red LED comes on immediately). After that it works fine. And if I drop the PTT for a moment or two only, there is no delay when I come back on. But at the start of each over, I get the same delay.

Also if I supply a loud audio tone near the mike, and press the PTT, it takes a second or so before the red LED goes out.

Has anyone else noticed this, and can anyone see what might be causing it. There seems to be no issue with the PSU, and looking at the circuit, I can't see any RC combination that would give such a long charge/discharge time.

Lee G3SEW

1939. Re: [mkars80] PTT Delay

Yahoo group: mkars80
Date: 2011-03-19 17:31:23 UTC
From: Steve Drury
Topic: 1938 Message: 1939

Hello Lee,

Good to hear you on this afternoon - it sounded very good.

I know you are using a Heil microphone, did you say this was amplified?
If so have you tried it with a simple electrect mike?

Let me know and we will go from there.

Steve

On 19/03/2011 16:02, g3sew wrote:
> After I press the PTT on the MKARS there seems to be a delay of one second or more before any RF appears at the output (even though the red LED comes on immediately). After that it works fine. And if I drop the PTT for a moment or two only, there is no delay when I come back on. But at the start of each over, I get the same delay.
>
> Also if I supply a loud audio tone near the mike, and press the PTT, it takes a second or so before the red LED goes out.
>
> Has anyone else noticed this, and can anyone see what might be causing it. There seems to be no issue with the PSU, and looking at the circuit, I can't see any RC combination that would give such a long charge/discharge time.
>
>
> Lee G3SEW
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3515 - Release Date: 03/18/11
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1940. Re: PTT Delay

Yahoo group: mkars80
Date: 2011-03-19 18:49:24 UTC
From: g3sew
Topic: 1938 Message: 1940

Steve,

Glad the audio sounded OK - and very pleased to work the MK-run station.

You got it in one - with the Electret there is no problem, but when I use a dynamic mic with preamp, I hit the problem, as the preamp is being powered by the elctret bias line, and has 100uF across the incoming supply. If I drop this to 10uF that should fix the problem.

Many thanks,

Lee

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Hello Lee,
>
> Good to hear you on this afternoon - it sounded very good.
>
> I know you are using a Heil microphone, did you say this was amplified?
> If so have you tried it with a simple electrect mike?
>
> Let me know and we will go from there.
>
> Steve
>
> On 19/03/2011 16:02, g3sew wrote:
> > After I press the PTT on the MKARS there seems to be a delay of one second or more before any RF appears at the output (even though the red LED comes on immediately). After that it works fine. And if I drop the PTT for a moment or two only, there is no delay when I come back on. But at the start of each over, I get the same delay.
> >
> > Also if I supply a loud audio tone near the mike, and press the PTT, it takes a second or so before the red LED goes out.
> >
> > Has anyone else noticed this, and can anyone see what might be causing it. There seems to be no issue with the PSU, and looking at the circuit, I can't see any RC combination that would give such a long charge/discharge time.
> >
> >
> > Lee G3SEW
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1204 / Virus Database: 1498/3515 - Release Date: 03/18/11
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>

1941. Re: [mkars80] Re: PTT Delay

Yahoo group: mkars80
Date: 2011-03-19 19:48:57 UTC
From: Steve Drury
Topic: 1938 Message: 1941

Lee ,

The microphone bias is supplied by R17 from the TX12V supply, in your situation it may be a good idea to lift the 12V end and take it to the 8V regulated supply.

Steve

On 19/03/2011 18:49, g3sew wrote:
> Steve,
>
> Glad the audio sounded OK - and very pleased to work the MK-run station.
>
> You got it in one - with the Electret there is no problem, but when I use a dynamic mic with preamp, I hit the problem, as the preamp is being powered by the elctret bias line, and has 100uF across the incoming supply. If I drop this to 10uF that should fix the problem.
>
> Many thanks,
>
>
> Lee
>
> --- In mkars80@..., Steve Drury<g6alu@...> wrote:
>> Hello Lee,
>>
>> Good to hear you on this afternoon - it sounded very good.
>>
>> I know you are using a Heil microphone, did you say this was amplified?
>> If so have you tried it with a simple electrect mike?
>>
>> Let me know and we will go from there.
>>
>> Steve
>>
>> On 19/03/2011 16:02, g3sew wrote:
>>> After I press the PTT on the MKARS there seems to be a delay of one second or more before any RF appears at the output (even though the red LED comes on immediately). After that it works fine. And if I drop the PTT for a moment or two only, there is no delay when I come back on. But at the start of each over, I get the same delay.
>>>
>>> Also if I supply a loud audio tone near the mike, and press the PTT, it takes a second or so before the red LED goes out.
>>>
>>> Has anyone else noticed this, and can anyone see what might be causing it. There seems to be no issue with the PSU, and looking at the circuit, I can't see any RC combination

that would give such a long charge/discharge time.
>>>
>>>
>>> Lee G3SEW
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>
>

1942. Ebay

Yahoo group: mkars80
Date: 2011-03-20 07:31:03 UTC
From: Steve Drury
Topic: 1942 Message: 1942

There is a built MKARS80 and a CW adapter on ebay, see item number:

170617633018

Steve G6ALU

1943. Re: PTT Delay

Yahoo group: mkars80
Date: 2011-03-20 09:02:16 UTC
From: g3sew
Topic: 1938 Message: 1943

Steve,

Good point. I will try that if my fix has unforseen consequences. At the moment I have used a 1uF across the mic preamp supply, and this has killed the delay completely.

Lee

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Lee ,
>
> The microphone bias is supplied by R17 from the TX12V supply, in your
> situation it may be a good idea to lift the 12V end and take it to the
> 8V regulated supply.
>
> Steve
>
> On 19/03/2011 18:49, g3sew wrote:
> > Steve,
> >
> > Glad the audio sounded OK - and very pleased to work the MK-run station.
> >
> > You got it in one - with the Electret there is no problem, but when I use a dynamic mic with preamp, I hit the problem, as the preamp is being powered by the elctret bias line, and has 100uF across the incoming supply. If I drop this to 10uF that should fix the problem.
> >
> > Many thanks,
> >
> >
> > Lee
> >
> > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> >> Hello Lee,
> >>
> >> Good to hear you on this afternoon - it sounded very good.
> >>
> >> I know you are using a Heil microphone, did you say this was amplified?
> >> If so have you tried it with a simple electrect mike?
> >>
> >> Let me know and we will go from there.
> >>
> >> Steve
> >>
> >> On 19/03/2011 16:02, g3sew wrote:
> >>> After I press the PTT on the MKARS there seems to be a delay of one second or more

before any RF appears at the output (even though the red LED comes on immediately). After that it works fine. And if I drop the PTT for a moment or two only, there is no delay when I come back on. But at the start of each over, I get the same delay.
> >>>
> >>> Also if I supply a loud audio tone near the mike, and press the PTT, it takes a second or so before the red LED goes out.
> >>>
> >>> Has anyone else noticed this, and can anyone see what might be causing it. There seems to be no issue with the PSU, and looking at the circuit, I can't see any RC combination that would give such a long charge/discharge time.
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> >>> Lee G3SEW
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>

1944. Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 10:12:07 UTC
From: Bengt Johansson
Topic: 1944 Message: 1944

Where can I buy a electret microphone, preferably in the UK?
I can, of course modify to connect a dynamic one, but would like to have an electret type.

1945. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 10:25:30 UTC
From: Rob M0TFO
Topic: 1944 Message: 1945

Electret Tie-Clip Microphone
http://www.maplin.co.uk/electret-tie-clip-microphone-27416

might be a little small, but only £19.99

--- In mkars80@yahoogroups.co.uk, "Bengt Johansson" <bengt1933@...> wrote:
>
> Where can I buy a electret microphone, preferably in the UK?
> I can, of course modify to connect a dynamic one, but would like to have an electret type.
>

1946. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 12:51:14 UTC
From: Bengt Johansson
Topic: 1944 Message: 1946

Thanks for the info, but I have to attach an outside S/M switch.
Maybe I am asking for something that does'nt exist, i.e. with an built-in S/M swiitch?

[Non-text portions of this message have been removed]

1947. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 13:17:44 UTC
From: Steve Bell
Topic: 1944 Message: 1947

I use a Maplin QT21X mic with ptt switch, and modified it as in the MKARS80 Yahoo Group files section. The only thing I've noted is the lead could do with being a little longer.

Steve 2E0SGB

On 20 Mar 2011, at 12:51, Bengt Johansson wrote:
> Thanks for the info, but I have to attach an outside S/M switch.
> Maybe I am asking for something that does'nt exist, i.e. with an
> built-in S/M swiitch?
>
> [Non-text portions of this message have been removed]

1948. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 15:43:16 UTC
From: dyarnes1
Topic: 1944 Message: 1948

I'm not sure where you are, or what access you have to electronic supply stores, but here in the U.S. we have several outlets that sell electret cartridges, and they tend to be very inexpensive. I've made several electret microphones by just inserting an electret cartridge into an old dynamic microphone housing. The results have been excellent, and the process very easy. I did this very thing with my MKARS80, and it works great. I bought an old microphone at a hamfest for a couple of dollars, then inserted an electret cartridge which cost me another couple of dollars. All you have to add is a small resistor, approx 6K to 8K, and a 6V to 8V source, for bias on the microphone pin.

Dave W7AQK

--- In mkars80@..., "Bengt Johansson" <bengt1933@...> wrote:
>
> Where can I buy a electret microphone, preferably in the UK?
> I can, of course modify to connect a dynamic one, but would like to have an electret type.
>

1949. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 16:25:53 UTC
From: g3sew
Topic: 1944 Message: 1949

Good idea using a surplus mic housing. But I think that the MKARS circuit already provides bias for the electret (so you shouldn't need a separate supply). I have just connected an electret mic capsule directly to the mic input, and that seemed to work fine.

You can get them in the UK from Maplins (part no. FS43W), at just under £4.00. But if you look around you can often pick them up even more cheaply. Not long ago I bought a pack of 3 for £1.00 - but I don't remember where I got it :(

Lee G3SEW

--- In mkars80@..., "dyarnes1" <w7aqk@...> wrote:
>
> I'm not sure where you are, or what access you have to electronic supply stores, but here in the U.S. we have several outlets that sell electret cartridges, and they tend to be very inexpensive. I've made several electret microphones by just inserting an electret cartridge into an old dynamic microphone housing. The results have been excellent, and the process very easy. I did this very thing with my MKARS80, and it works great. I bought an old microphone at a hamfest for a couple of dollars, then inserted an electret cartridge which cost me another couple of dollars. All you have to add is a small resistor, approx 6K to 8K, and a 6V to 8V source, for bias on the microphone pin.
>
> Dave W7AQK
>
>
>
> --- In mkars80@..., "Bengt Johansson" <bengt1933@> wrote:
> >
> > Where can I buy a electret microphone, preferably in the UK?
> > I can, of course modify to connect a dynamic one, but would like to have an electret type.
> >
>

1950. RE: [mkars80] Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 16:39:54 UTC
From: Ray Stringfellow
Topic: 1944 Message: 1950

If you have a local poundland or similar shop you can often pick up a computer mic or headset that work very well with the MKARS
Ray

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> , "Bengt Johansson" <bengt1933@> wrote:
> >
> > Where can I buy a electret microphone, preferably in the UK?
> > I can, of course modify to connect a dynamic one, but would like to have an electret type.
> >
>

[Non-text portions of this message have been removed]

1951. Re: [mkars80] Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 16:42:37 UTC
From: Trygve Sjothun
Topic: 1944 Message: 1951

100% agree.

On 20 March 2011 16:39, Ray Stringfellow <g4tzr@...> wrote:

>
>
> If you have a local poundland or similar shop you can often pick up a
> computer mic or headset that work very well with the MKARS
> Ray
>
> --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
>
> "Bengt Johansson" <bengt1933@> wrote:
> > >
> > > Where can I buy a electret microphone, preferably in the UK?
> > > I can, of course modify to connect a dynamic one, but would like to
> have
> an electret type.
> > >
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>
> [Non-text portions of this message have been removed]
>
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>

--
"Our virtues and our failings are inseparable, like force and matter. When
they separate, man is no more." Nikola Tesla 1857 - 1943

[Non-text portions of this message have been removed]

1952. Re: [mkars80] Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-20 17:53:21 UTC
From: Steve Drury
Topic: 1944 Message: 1952

I use a low cost computer desk microphone purchased from a common
superstore (Tescos), you need to rewire the switch as normally they are
in series with the electret element, you need to wire it as a separate
push to talk.

Steve G6ALU

On 20/03/2011 12:51, Bengt Johansson wrote:
> Thanks for the info, but I have to attach an outside S/M switch.
> Maybe I am asking for something that does'nt exist, i.e. with an built-in S/M swiitch?
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3517 - Release Date: 03/19/11
>
>

1953. Re: [mkars80] VFO stabilisation

Yahoo group: mkars80
Date: 2011-03-20 17:56:35 UTC
From: Steve Drury
Topic: 1937 Message: 1953

Hi Pascal,

I advise to leave the radio powered for a while before transmitting to enable the VFO to stabilise - time depends on the temperature of you shack etc.

Look for the tell tale indication on the bottom right of the display, it indicates how much correction is being applied to the VFO frequency; if it gets to three bars then that's the time to re-tune.

Regards,
Steve G6ALU

On 15/03/2011 20:41, Pascal wrote:
> Hi - During the first 15 mn , after a cold start, RX on, the Huff and Puff works well, but suddenly the frequency jumps down by 2khz. That may happen 2 or 3 times , then the Huff and Puff stabilisation becomes right. Has anyone seen the same thing ? Can I do some improvement ? 73 to all.
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3508 - Release Date: 03/15/11
>
>

1954. MKARS80 Net

Yahoo group: mkars80
Date: 2011-03-21 18:31:18 UTC
From: woodiescbj
Topic: 1954 Message: 1954

Hi all, is there a MKARS80 net? I run a MKARS80 page on Facebook and would like to include details of the net if there is one.
I am still having lots of fun and contacts with my MKARS80 and am using it with a homemade portable MORGAIN antenna at the moment. 72/3 de Colin DD5CF

1955. Re: [mkars80] MKARS80 Net

Yahoo group: mkars80
Date: 2011-03-21 23:01:10 UTC
From: Steve Drury
Topic: 1954 Message: 1955

Hi Colin,

There used to be one and it was very successful, it got a bit difficult
though as we kept being walked over by QRO stations.

The frequency we used was 3.690 MHz at 9:30AM local time on a Sunday
morning... perhaps we should give it another go?

Steve G6ALU

On 21/03/2011 18:31, woodiescbj wrote:
> Hi all, is there a MKARS80 net? I run a MKARS80 page on Facebook and would like to
include details of the net if there is one.
> I am still having lots of fun and contacts with my MKARS80 and am using it with a
homemade portable MORGAIN antenna at the moment. 72/3 de Colin DD5CF
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3518 - Release Date: 03/20/11
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>

1956. Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 09:51:52 UTC
From: g3sew
Topic: 1956 Message: 1956

Hi

My new MKARS has been working faultlessly for a week or so now, but has suddenly lost frequecy lock. It now mostly displays the 'U' sign when left quietly on the bench with nothing connected except the power supply. Occasioanlly it changes to a '+' indicating that it has locked, but then very quickly reverts to a 'U', without getting a series of '+++'. Looking at the frequency displayed, it only has to change by 5Hz for lock to be lost. I have tried rebooting, as it seems like a processor glitch, but to no avail. Has anyone else seen this, or does Steve have any good ideas?

PS - I like the idea of an MKARS net.

Lee G3SEW

1957. Re: [mkars80] Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 13:09:55 UTC
From: g6alu@tiscali.co.uk
Topic: 1956 Message: 1957

Lee,

I have to own up to a small bug in the code where it doesn't lock at one precise frequency - can you advise at what frequency your problem occurs?

Steve G6ALU

>----Original Message----

>From: g3sew@...

>Date: 22/03/2011 9:51

>To: <mkars80@...>

>Subj: [mkars80] Loss of frequency lock

>

>Hi

>

>My new MKARS has been working faultlessly for a week or so now, but has suddenly lost frequecy lock. It now mostly displays the 'U' sign when left quietly on the bench with nothing connected except the power supply. Occasioanlly it changes to a '+' indicating that it has locked, but then very quickly reverts to a 'U', without getting a series of '+++'. Looking at the frequency displayed, it only has to change by 5Hz for lock to be lost. I have tried rebooting, as it seems like a processor glitch, but to no avail. Has anyone else seen this, or does Steve have any good ideas?

>

>PS - I like the idea of an MKARS net.

>

>

>Lee G3SEW

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>Yahoo! Groups Links

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> http://uk.groups.yahoo.com/group/mkars80/
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> mkars80-unsubscribe@...

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> http://uk.docs.yahoo.com/info/terms.html
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1958. Re: Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 15:05:25 UTC
From: g3sew
Topic: 1956 Message: 1958

Steve

That is really bizarre. As I began to think about it, it seemed to me that it had to be a software problem, because the PIC obviously knew what frequency it was on, as it was displaying it correctly, so even if it wasn't applying the physical correction, it should have displayed the correct indication ('+' in place of 'U' etc).

The frequency was 3.775.

Before receiving your email I managed to have a QSO on 3.727 without any loss of lock, but I didn't know why it had started working.

I have just retuned it to 3.775, and it is completely out of lock again.

Very interesting. How did this happen in the code - was it something you had built in for testing purposes?

It would actually be very useful to use one of the unconnected PIC port bits to switch locking off temporarily for tuning purposes. We could then attach a push button to it. It migh even be handy to be able to force the lock to stay on using another button on a second line so that if we jog the chassis, it doesnt lose lock.

Lee G3SEW

--- In mkars80@....uk, "g6alu@..." <g6alu@...> wrote:
>
> Lee,
>
> I have to own up to a small bug in the code where it doesn't lock at
> one precise frequency - can you advise at what frequency your problem
> occurs?
>
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>
> Steve G6ALU
>
>
>
> >----Original Message----
>
> >From: g3sew@...
>
> >Date: 22/03/2011 9:51
>
> >To: <mkars80@...>
>
> >Subj: [mkars80] Loss of frequency lock

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>
> >Hi
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> >My new MKARS has been working faultlessly for a week or so now, but
> has suddenly lost frequecy lock. It now mostly displays the 'U' sign
> when left quietly on the bench with nothing connected except the power
> supply. Occasioanlly it changes to a '+' indicating that it has locked,
> but then very quickly reverts to a 'U', without getting a series of
> '+++'. Looking at the frequency displayed, it only has to change by 5Hz
> for lock to be lost. I have tried rebooting, as it seems like a
> processor glitch, but to no avail. Has anyone else seen this, or does
> Steve have any good ideas?
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> >PS - I like the idea of an MKARS net.
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> >Lee G3SEW
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1959. Re: Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 16:20:01 UTC
From: mark
Topic: 1956 Message: 1959

what i did was to fit the veracto tuning mod into mkars made one hell of a diffrence to tuning and as solid as a rock
mark 2w0jmk

--- In mkars80@yahoogroups.co.uk, "g3sew" <g3sew@...> wrote:
>
> Steve
>
> That is really bizarre. As I began to think about it, it seemed to me that it had to be a software problem, because the PIC obviously knew what frequency it was on, as it was displaying it correctly, so even if it wasn't applying the physical correction, it should have displayed the correct indication ('+' in place of 'U' etc).
>
> The frequency was 3.775.
>
> Before receiving your email I managed to have a QSO on 3.727 without any loss of lock, but I didn't know why it had started working.
>
> I have just retuned it to 3.775, and it is completely out of lock again.
>
> Very interesting. How did this happen in the code - was it something you had built in for testing purposes?
>
> It would actually be very useful to use one of the unconnected PIC port bits to switch locking off temporarily for tuning purposes. We could then attach a push button to it. It migh even be handy to be able to force the lock to stay on using another button on a second line so that if we jog the chassis, it doesnt lose lock.
>
>
> Lee G3SEW
>
>
> --- In mkars80@yahoogroups.co.uk, "g6alu@" <g6alu@> wrote:
> >
> > Lee,
> >
> > I have to own up to a small bug in the code where it doesn't lock at
> > one precise frequency - can you advise at what frequency your problem
> > occurs?
> >
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> >
> > Steve G6ALU
> >
> >

> >
> > >----Original Message----
> >
> > >From: g3sew@
> >
> > >Date: 22/03/2011 9:51
> >
> > >To: <mkars80@yahoogroups.co.uk>
> >
> > >Subj: [mkars80] Loss of frequency lock
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> > >
> >
> > >Hi
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> > >My new MKARS has been working faultlessly for a week or so now, but
> > has suddenly lost frequecy lock. It now mostly displays the 'U' sign
> > when left quietly on the bench with nothing connected except the power
> > supply. Occasioanlly it changes to a '+' indicating that it has locked,
> > but then very quickly reverts to a 'U', without getting a series of
> > '+++'. Looking at the frequency displayed, it only has to change by 5Hz
> > for lock to be lost. I have tried rebooting, as it seems like a
> > processor glitch, but to no avail. Has anyone else seen this, or does
> > Steve have any good ideas?
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> > >PS - I like the idea of an MKARS net.
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> > >Lee G3SEW
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>

1960. Re: Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 17:17:48 UTC
From: g3sew
Topic: 1956 Message: 1960

Do you have a reference for that mod Mark?

Also - I bet if you tune to between 3.774 and 3.775 it will still fail to lock.

Lee G3SEW

--- In mkars80@..., "mark" <mw3hqt@...> wrote:
>
> what i did was to fit the veracto tuning mod into mkars made one hell of a diffrence to tuning and as solid as a rock
> mark 2w0jmk
>
> --- In mkars80@..., "g3sew" <g3sew@> wrote:
> >
> > Steve
> >
> > That is really bizarre. As I began to think about it, it seemed to me that it had to be a software problem, because the PIC obviously knew what frequency it was on, as it was displaying it correctly, so even if it wasn't applying the physical correction, it should have displayed the correct indication ('+' in place of 'U' etc).
> >
> > The frequency was 3.775.
> >
> > Before receiving your email I managed to have a QSO on 3.727 without any loss of lock, but I didn't know why it had started working.
> >
> > I have just retuned it to 3.775, and it is completely out of lock again.
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> > Very interesting. How did this happen in the code - was it something you had built in for testing purposes?
> >
> > It would actually be very useful to use one of the unconnected PIC port bits to switch locking off temporarily for tuning purposes. We could then attach a push button to it. It migh even be handy to be able to force the lock to stay on using another button on a second line so that if we jog the chassis, it doesnt lose lock.
> >
> >
> > Lee G3SEW
> >
> >
> > --- In mkars80@..., "g6alu@" <g6alu@> wrote:
> > >
> > > Lee,
> > >
> > > I have to own up to a small bug in the code where it doesn't lock at
> > > one precise frequency - can you advise at what frequency your problem

> > > occurs?
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> > >
> > > Steve G6ALU
> > >
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> > >
> > > >----Original Message----
> > >
> > > >From: g3sew@
> > >
> > > >Date: 22/03/2011 9:51
> > >
> > > >To: <mkars80@...>
> > >
> > > >Subj: [mkars80] Loss of frequency lock
> > >
> > > >
> > >
> > > >Hi
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> > > >My new MKARS has been working faultlessly for a week or so now, but
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> > > >Lee G3SEW
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1961. Re: Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 17:31:53 UTC
From: mark
Topic: 1956 Message: 1961

Hi if you look in the file section you will find a reference under G8EEY'S mods section. To be honest I cant remember if the two I did looked on at 3.775 after doing the mod but I do know they were a lot more stable and internal temp change did not bother them.

Mark 2w0jmk

--- In mkars80@yahoogroups.co.uk, "g3sew" <g3sew@...> wrote:
>
> Do you have a reference for that mod Mark?
>
> Also - I bet if you tune to between 3.774 and 3.775 it will still fail to lock.
>
>
> Lee G3SEW
>
>
> --- In mkars80@....uk, "mark" <mw3hqt@> wrote:
> >
> > what i did was to fit the veracto tuning mod into mkars made one hell of a diffrence to tuning and as solid as a rock
> > mark 2w0jmk
> >
> > --- In mkars80@..., "g3sew" <g3sew@> wrote:
> > >
> > > Steve
> > >
> > > That is really bizarre. As I began to think about it, it seemed to me that it had to be a software problem, because the PIC obviously knew what frequency it was on, as it was displaying it correctly, so even if it wasn't applying the physical correction, it should have displayed the correct indication ('+' in place of 'U' etc).
> > >
> > > The frequency was 3.775.
> > >
> > > Before receiving your email I managed to have a QSO on 3.727 without any loss of lock, but I didn't know why it had started working.
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> > > I have just retuned it to 3.775, and it is completely out of lock again.
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> > > Very interesting. How did this happen in the code - was it something you had built in for testing purposes?
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> > >
> > >
> > > Lee G3SEW
> > >
> > >
> > > --- In mkars80@..., "g6alu@" <g6alu@> wrote:
> > > >
> > > > Lee,
> > > >
> > > > I have to own up to a small bug in the code where it doesn't lock at
> > > > one precise frequency - can you advise at what frequency your problem
> > > > occurs?
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> > > > Steve G6ALU
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> > > >
> > > > >----Original Message----
> > > >
> > > > >From: g3sew@
> > > >
> > > > >Date: 22/03/2011 9:51
> > > >
> > > > >To: <mkars80@...>
> > > >
> > > > >Subj: [mkars80] Loss of frequency lock
> > > >
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> > > >
> > > > >Hi
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> > > > >My new MKARS has been working faultlessly for a week or so now, but
> > > > has suddenly lost frequecy lock. It now mostly displays the 'U' sign
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> > > > >PS - I like the idea of an MKARS net.
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> > > > >Lee G3SEW
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> > > > > http://uk.docs.yahoo.com/info/terms.html
> > > > >
> > > >
> > > > >
> > > >
> > >
> >
>

1962. Re: Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 18:01:52 UTC
From: g3sew
Topic: 1956 Message: 1962

Thanks. I wondered if that was the one you meant.

Lee G3SEW

--- In mkars80@..., "mark" <mw3hqt@...> wrote:
>
> Hi if you look in the file section you will find a reference under G8EEY'S mods section. To be honest I cant remember if the two I did looked on at 3.775 after doing the mod but I do know they were a lot more stable and internal temp change did not bother them.
>
> Mark 2w0jmk
>
> --- In mkars80@..., "g3sew" <g3sew@> wrote:
> >
> > Do you have a reference for that mod Mark?
> >
> > Also - I bet if you tune to between 3.774 and 3.775 it will still fail to lock.
> >
> >
> > Lee G3SEW
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "mark" <mw3hqt@> wrote:
> > >
> > > what i did was to fit the veracto tuning mod into mkars made one hell of a diffrence to tuning and as solid as a rock
> > > mark 2w0jmk
> > >
> > > --- In mkars80@....uk, "g3sew" <g3sew@> wrote:
> > > >
> > > > Steve
> > > >
> > > > That is really bizarre. As I began to think about it, it seemed to me that it had to be a software problem, because the PIC obviously knew what frequency it was on, as it was displaying it correctly, so even if it wasn't applying the physical correction, it should have displayed the correct indication ('+' in place of 'U' etc).
> > > >
> > > > The frequency was 3.775.
> > > >
> > > > Before receiving your email I managed to have a QSO on 3.727 without any loss of lock, but I didn't know why it had started working.
> > > >
> > > > I have just retuned it to 3.775, and it is completely out of lock again.
> > > >
> > > > Very interesting. How did this happen in the code - was it something you had built

in for testing purposes?
> > > >
> > > > It would actually be very useful to use one of the unconnected PIC port bits to switch locking off temporarily for tuning purposes. We could then attach a push button to it. It migh even be handy to be able to force the lock to stay on using another button on a second line so that if we jog the chassis, it doesnt lose lock.
> > > >
> > > >
> > > > Lee G3SEW
> > > >
> > > >
> > > > --- In mkars80@..., "g6alu@" <g6alu@> wrote:
> > > > >
> > > > > Lee,
> > > > >
> > > > > I have to own up to a small bug in the code where it doesn't lock at
> > > > > one precise frequency - can you advise at what frequency your problem
> > > > > occurs?
> > > > >
> > > > >
> > > > >
> > > > > Steve G6ALU
> > > > >
> > > > >
> > > > >
> > > > > >----Original Message----
> > > > >
> > > > > >From: g3sew@
> > > > >
> > > > > >Date: 22/03/2011 9:51
> > > > >
> > > > > >To: <mkars80@yahoogroups.co.uk>
> > > > >
> > > > > >Subj: [mkars80] Loss of frequency lock
> > > > >
> > > > > >
> > > > >
> > > > > >Hi
> > > > >
> > > > > >
> > > > >
> > > > > >My new MKARS has been working faultlessly for a week or so now, but
> > > > > has suddenly lost frequecy lock. It now mostly displays the 'U' sign
> > > > > when left quietly on the bench with nothing connected except the power
> > > > > supply. Occasioanlly it changes to a '+' indicating that it has locked,
> > > > > but then very quickly reverts to a 'U', without getting a series of
> > > > > '+++'. Looking at the frequency displayed, it only has to change by 5Hz
> > > > > for lock to be lost. I have tried rebooting, as it seems like a
> > > > > processor glitch, but to no avail. Has anyone else seen this, or does
> > > > > Steve have any good ideas?
> > > > >

> > > > > >
> > > > > >
> > > > > > >PS - I like the idea of an MKARS net.
> > > > > >
> > > > > > >
> > > > > >
> > > > > > >
> > > > > >
> > > > > > >Lee G3SEW
> > > > > >
> > > > > > >
> > > > > >
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> > > > > > >
> > > > > >
> > > > > > >
> > > > > > >----------
> > > > > >
> > > > > > >
> > > > > >
> > > > > > >Yahoo! Groups Links
> > > > > >
> > > > > > >
> > > > > >
> > > > > > > http://uk.groups.yahoo.com/group/mkars80/
> > > > > > >
> > > > > >
> > > > > > required)
> > > > > >
> > > > > > >
> > > > > > uk
> > > > > >
> > > > > > >
> > > > > >
> > > > > > > mkars80-unsubscribe@...
> > > > > >
> > > > > > >
> > > > > >
> > > > > > > http://uk.docs.yahoo.com/info/terms.html
> > > > > > >
> > > > > >
> > > > > > >
> > > > > >
> > > > > >
> > > > >
> > > >
> >

1963. Re: [mkars80] Re: Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 20:03:17 UTC
From: Steve Drury
Topic: 1956 Message: 1963

Yes that's the frequency - I need to look at the code but its likely due
to the carry bit and the way I'm using it.

Steve

On 22/03/2011 15:05, g3sew wrote:
> Steve
>
> That is really bizarre. As I began to think about it, it seemed to me that it had to be a software problem, because the PIC obviously knew what frequency it was on, as it was displaying it correctly, so even if it wasn't applying the physical correction, it should have displayed the correct indication ('+' in place of 'U' etc).
>
> The frequency was 3.775.
>
> Before receiving your email I managed to have a QSO on 3.727 without any loss of lock, but I didn't know why it had started working.
>
> I have just retuned it to 3.775, and it is completely out of lock again.
>
> Very interesting. How did this happen in the code - was it something you had built in for testing purposes?
>
> It would actually be very useful to use one of the unconnected PIC port bits to switch locking off temporarily for tuning purposes. We could then attach a push button to it. It migh even be handy to be able to force the lock to stay on using another button on a second line so that if we jog the chassis, it doesnt lose lock.
>
>
> Lee G3SEW
>
>
> --- In mkars80@..., "g6alu@..."<g6alu@...> wrote:
>> Lee,
>>
>> I have to own up to a small bug in the code where it doesn't lock at
>> one precise frequency - can you advise at what frequency your problem
>> occurs?
>>
>>
>>
>> Steve G6ALU
>>
>>
>>

>>> ----Original Message----
>>> From: g3sew@...
>>> Date: 22/03/2011 9:51
>>> To:<mkars80@...>
>>> Subj: [mkars80] Loss of frequency lock
>>> Hi
>>> My new MKARS has been working faultlessly for a week or so now, but
>> has suddenly lost frequecy lock. It now mostly displays the 'U' sign
>> when left quietly on the bench with nothing connected except the power
>> supply. Occasioanlly it changes to a '+' indicating that it has locked,
>> but then very quickly reverts to a 'U', without getting a series of
>> '+++'. Looking at the frequency displayed, it only has to change by 5Hz
>> for lock to be lost. I have tried rebooting, as it seems like a
>> processor glitch, but to no avail. Has anyone else seen this, or does
>> Steve have any good ideas?
>>
>>> PS - I like the idea of an MKARS net.
>>> Lee G3SEW
>>> ------------------------------------
>>> Yahoo! Groups Links
>>> http://uk.groups.yahoo.com/group/mkars80/
>>>
>> required)
>>
>> uk
>>
>>> mkars80-unsubscribe@...
>>> http://uk.docs.yahoo.com/info/terms.html
>>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3521 - Release Date: 03/21/11
>
>

1964. Re: Loss of frequency lock

Yahoo group: mkars80
Date: 2011-03-22 20:26:14 UTC
From: g3sew
Topic: 1956 Message: 1964

Interesting. It would be good to fix it, as I got thoroughly caught out on the air. I called a station on 3.775, and my frequency wandered about all over the place - to the point where the other station had some problems copying, and I had to quickly switch to another rig :-)

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Yes that's the frequency - I need to look at the code but its likely due
> to the carry bit and the way I'm using it.
>
> Steve
>
> On 22/03/2011 15:05, g3sew wrote:
> > Steve
> >
> > That is really bizarre. As I began to think about it, it seemed to me that it had to be a software problem, because the PIC obviously knew what frequency it was on, as it was displaying it correctly, so even if it wasn't applying the physical correction, it should have displayed the correct indication ('+' in place of 'U' etc).
> >
> > The frequency was 3.775.
> >
> > Before receiving your email I managed to have a QSO on 3.727 without any loss of lock, but I didn't know why it had started working.
> >
> > I have just retuned it to 3.775, and it is completely out of lock again.
> >
> > Very interesting. How did this happen in the code - was it something you had built in for testing purposes?
> >
> > It would actually be very useful to use one of the unconnected PIC port bits to switch locking off temporarily for tuning purposes. We could then attach a push button to it. It migh even be handy to be able to force the lock to stay on using another button on a second line so that if we jog the chassis, it doesnt lose lock.
> >
> >
> > Lee G3SEW
> >
> >
> > --- In mkars80@..., "g6alu@"<g6alu@> wrote:
> >> Lee,
> >>
> >> I have to own up to a small bug in the code where it doesn't lock at

> >> one precise frequency - can you advise at what frequency your problem
> >> occurs?
> >>
> >>
> >>
> >> Steve G6ALU
> >>
> >>
> >>
> >>> ----Original Message----
> >>> From: g3sew@
> >>> Date: 22/03/2011 9:51
> >>> To:<mkars80@...>
> >>> Subj: [mkars80] Loss of frequency lock
> >>> Hi
> >>> My new MKARS has been working faultlessly for a week or so now, but
> >> has suddenly lost frequecy lock. It now mostly displays the 'U' sign
> >> when left quietly on the bench with nothing connected except the power
> >> supply. Occasioanlly it changes to a '+' indicating that it has locked,
> >> but then very quickly reverts to a 'U', without getting a series of
> >> '+++'. Looking at the frequency displayed, it only has to change by 5Hz
> >> for lock to be lost. I have tried rebooting, as it seems like a
> >> processor glitch, but to no avail. Has anyone else seen this, or does
> >> Steve have any good ideas?
> >>
> >>> PS - I like the idea of an MKARS net.
> >>> Lee G3SEW
> >>> ------------------------------------
> >>> Yahoo! Groups Links
> >>> http://uk.groups.yahoo.com/group/mkars80/
> >>>
> >> required)
> >>
> >> uk
> >>
> >>> mkars80-unsubscribe@...
> >>> http://uk.docs.yahoo.com/info/terms.html
> >>>
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> > -----

> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1204 / Virus Database: 1498/3521 - Release Date: 03/21/11
> >
> >
>

1965. MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-23 19:30:50 UTC
From: Steve Drury
Topic: 1965 Message: 1965

We are planning to hold an MKARS80 net this Sunday at 9:30 UK time (remember the clocks go forward!), frequency will be the QRP centre of activity 3.960MHz so lets hope we don't get walked over.

Regards,
Steve G6ALU

1966. Re: [mkars80] MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-23 19:32:56 UTC
From: Steve Drury
Topic: 1965 Message: 1966

OK, before any one tells me the frequency should have been 3.690MHz,
that below is out of band!

Steve

On 23/03/2011 19:30, Steve Drury wrote:
> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
> (remember the clocks go forward!), frequency will be the QRP centre of
> activity 3.960MHz so lets hope we don't get walked over.
>
> Regards,
> Steve G6ALU
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
>
>

1967. Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-23 20:43:49 UTC
From: g3oth
Topic: 1965 Message: 1967

Steve, its a pity you have changed your mind as I am sure it would have been a lot quieter up there !
73 de Charles G3OTH
PS please listen for me on Sunday as I hope to get on if condx permit.

--- In mkars80@....uk, Steve Drury <g6alu@...> wrote:
>
> OK, before any one tells me the frequency should have been 3.690MHz,
> that below is out of band!
>
> Steve
>
> On 23/03/2011 19:30, Steve Drury wrote:
> > We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
> > (remember the clocks go forward!), frequency will be the QRP centre of
> > activity 3.960MHz so lets hope we don't get walked over.
> >
> > Regards,
> > Steve G6ALU
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
> >
> >
>

1968. Re: [mkars80] Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-23 21:21:44 UTC
From: Steve Drury
Topic: 1965 Message: 1968

Charles,

I will listen out for you.

If its noisy on 3.690 I will post a clear frequency here.

Steve

On 23/03/2011 20:43, g3oth wrote:
> Steve, its a pity you have changed your mind as I am sure it would have been a lot quieter up there !
> 73 de Charles G3OTH
> PS please listen for me on Sunday as I hope to get on if condx permit.
>
> --- In mkars80@..., Steve Drury<g6alu@...> wrote:
>> OK, before any one tells me the frequency should have been 3.690MHz,
>> that below is out of band!
>>
>> Steve
>>
>> On 23/03/2011 19:30, Steve Drury wrote:
>>> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
>>> (remember the clocks go forward!), frequency will be the QRP centre of
>>> activity 3.960MHz so lets hope we don't get walked over.
>>>
>>> Regards,
>>> Steve G6ALU
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
>>>
>>>
>>> -----
>>> No virus found in this message.
>>> Checked by AVG - www.avg.com
>>> Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
>>>
>>>
>
>
>

> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
>
>

1969. Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-24 08:39:39 UTC
From: g3sew
Topic: 1965 Message: 1969

Also hoping to join the net.

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Charles,
>
> I will listen out for you.
>
> If its noisy on 3.690 I will post a clear frequency here.
>
> Steve
>
> On 23/03/2011 20:43, g3oth wrote:
> > Steve, its a pity you have changed your mind as I am sure it would have been a lot quieter up there !
> > 73 de Charles G3OTH
> > PS please listen for me on Sunday as I hope to get on if condx permit.
> >
> > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> >> OK, before any one tells me the frequency should have been 3.690MHz,
> >> that below is out of band!
> >>
> >> Steve
> >>
> >> On 23/03/2011 19:30, Steve Drury wrote:
> >>> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
> >>> (remember the clocks go forward!), frequency will be the QRP centre of
> >>> activity 3.960MHz so lets hope we don't get walked over.
> >>>
> >>> Regards,
> >>> Steve G6ALU
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
> >>>
> >>>
> >>>
> >>>
> >>> -----
> >>> No virus found in this message.

> >>> Checked by AVG - www.avg.com
> >>> Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
> >>>
> >>>
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
> >
> >
>

1970. Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-26 18:43:30 UTC
From: Pascal
Topic: 1965 Message: 1970

Hi, I will try to be there, but I doubt anyone can hear me with 5W ! French local time will be 10:30 , 73 Pascal F6EHP

--- In mkars80@yahoogroups.co.uk, "g3sew" <g3sew@...> wrote:
>
>
> Also hoping to join the net.
>
>
> Lee G3SEW
>
> --- In mkars80@..., Steve Drury <g6alu@> wrote:
> >
> > Charles,
> >
> > I will listen out for you.
> >
> > If its noisy on 3.690 I will post a clear frequency here.
> >
> > Steve
> >
> > On 23/03/2011 20:43, g3oth wrote:
> > > Steve, its a pity you have changed your mind as I am sure it would have been a lot quieter up there !
> > > 73 de Charles G3OTH
> > > PS please listen for me on Sunday as I hope to get on if condx permit.
> > >
> > > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> > >> OK, before any one tells me the frequency should have been 3.690MHz,
> > >> that below is out of band!
> > >>
> > >> Steve
> > >>
> > >> On 23/03/2011 19:30, Steve Drury wrote:
> > >>> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
> > >>> (remember the clocks go forward!), frequency will be the QRP centre of
> > >>> activity 3.960MHz so lets hope we don't get walked over.
> > >>>
> > >>> Regards,
> > >>> Steve G6ALU
> > >>>
> > >>>
> > >>> ------------------------------------
> > >>>
> > >>> Yahoo! Groups Links

> > >>>
> > >>>
> > >>>
> > >>>
> > >>>
> > >>> -----
> > >>> No virus found in this message.
> > >>> Checked by AVG - www.avg.com
> > >>> Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
> > >>>
> > >>>
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
> > >
> > >
> >
>

1971. Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-27 08:41:35 UTC
From: Pascal
Topic: 1965 Message: 1971

I copy G3SEW 55 with qsb, but other stns were too weak - using the Mkars80 and a 50W/70W amp, antenna is a vertical delta loop for 40m
- Thks for qso - 73 to all the group - F6EHP Pascal

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Hi, I will try to be there, but I doubt anyone can hear me with 5W ! French local time will be 10:30 , 73 Pascal F6EHP
>
> --- In mkars80@..., "g3sew" <g3sew@> wrote:
> >
> >
> > Also hoping to join the net.
> >
> >
> > Lee G3SEW
> >
> > --- In mkars80@..., Steve Drury <g6alu@> wrote:
> > >
> > > Charles,
> > >
> > > I will listen out for you.
> > >
> > > If its noisy on 3.690 I will post a clear frequency here.
> > >
> > > Steve
> > >
> > > On 23/03/2011 20:43, g3oth wrote:
> > > > Steve, its a pity you have changed your mind as I am sure it would have been a lot quieter up there !
> > > > 73 de Charles G3OTH
> > > > PS please listen for me on Sunday as I hope to get on if condx permit.
> > > >
> > > > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> > > >> OK, before any one tells me the frequency should have been 3.690MHz,
> > > >> that below is out of band!
> > > >>
> > > >> Steve
> > > >>
> > > >> On 23/03/2011 19:30, Steve Drury wrote:
> > > >>> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
> > > >>> (remember the clocks go forward!), frequency will be the QRP centre of
> > > >>> activity 3.960MHz so lets hope we don't get walked over.
> > > >>>
> > > >>> Regards,

> > > >>> Steve G6ALU
> > > >>>
> > > >>>
> > > >>> ------------------------------------
> > > >>>
> > > >>> Yahoo! Groups Links
> > > >>>
> > > >>>
> > > >>>
> > > >>>
> > > >>>
> > > >>> -----
> > > >>> No virus found in this message.
> > > >>> Checked by AVG - www.avg.com
> > > >>> Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
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> > > >>>
> > > > >
> > > > >
> > > > >
> > > > > ------------------------------------
> > > > >
> > > > > Yahoo! Groups Links
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > -----
> > > > > No virus found in this message.
> > > > > Checked by AVG - www.avg.com
> > > > > Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
> > > > >
> > > > >
> > > >
> > >
>

1972. Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-27 08:52:39 UTC
From: g3oth
Topic: 1965 Message: 1972

Good Morning all
I have been listening here up in Northumberland since 9.30 on and around 3690 but heard nothing of the net. What frequency are you all using please if not on 3690 ?
73 de Charles G3OTH

--- In mkars80@yahoogroups.co.uk, "Pascal" <pascal@...> wrote:
>
>
> I copy G3SEW 55 with qsb, but other stns were too weak - using the Mkars80 and a 50W/70W amp, antenna is a vertical delta loop for 40m
> - Thks for qso - 73 to all the group - F6EHP Pascal
>
> --- In mkars80@..., "Pascal" <pascal@> wrote:
> >
> > Hi, I will try to be there, but I doubt anyone can hear me with 5W ! French local time will be 10:30 , 73 Pascal F6EHP
> >
> > --- In mkars80@..., "g3sew" <g3sew@> wrote:
> > >
> > >
> > > Also hoping to join the net.
> > >
> > >
> > > Lee G3SEW
> > >
> > > --- In mkars80@..., Steve Drury <g6alu@> wrote:
> > > >
> > > > Charles,
> > > >
> > > > I will listen out for you.
> > > >
> > > > If its noisy on 3.690 I will post a clear frequency here.
> > > >
> > > > Steve
> > > >
> > > > On 23/03/2011 20:43, g3oth wrote:
> > > > > Steve, its a pity you have changed your mind as I am sure it would have been a lot quieter up there !
> > > > > 73 de Charles G3OTH
> > > > > PS please listen for me on Sunday as I hope to get on if condx permit.
> > > > >
> > > > > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> > > > >> OK, before any one tells me the frequency should have been 3.690MHz,
> > > > >> that below is out of band!
> > > > >>

> > > > >> Steve
> > > > >>
> > > > >> On 23/03/2011 19:30, Steve Drury wrote:
> > > > >>> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
> > > > >>> (remember the clocks go forward!), frequency will be the QRP centre of
> > > > >>> activity 3.960MHz so lets hope we don't get walked over.
> > > > >>>
> > > > >>> Regards,
> > > > >>> Steve G6ALU
> > > > >>>
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> > > > >>>
> > > > >>> Yahoo! Groups Links
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> > > > >>> No virus found in this message.
> > > > >>> Checked by AVG - www.avg.com
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1973. Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-27 08:57:09 UTC
From: Pascal
Topic: 1965 Message: 1973

3691
just one kc over previous frequency
but now qrm is higher, and i loose G3SEW time to time

73

--- In mkars80@..., "g3oth" <g3oth@...> wrote:
>
> Good Morning all
> I have been listening here up in Northumberland since 9.30 on and around 3690 but heard nothing of the net. What frequency are you all using please if not on 3690 ?
> 73 de Charles G3OTH
>
> --- In mkars80@..., "Pascal" <pascal@> wrote:
> >
> >
> > I copy G3SEW 55 with qsb, but other stns were too weak - using the Mkars80 and a 50W/70W amp, antenna is a vertical delta loop for 40m
> > - Thks for qso - 73 to all the group - F6EHP Pascal
> >
> > --- In mkars80@yahoogroups.co.uk, "Pascal" <pascal@> wrote:
> > >
> > > Hi, I will try to be there, but I doubt anyone can hear me with 5W ! French local time will be 10:30 , 73 Pascal F6EHP
> > >
> > > --- In mkars80@..., "g3sew" <g3sew@> wrote:
> > > >
> > > >
> > > > Also hoping to join the net.
> > > >
> > > >
> > > > Lee G3SEW
> > > >
> > > > --- In mkars80@yahoogroups.co.uk, Steve Drury <g6alu@> wrote:
> > > > >
> > > > > Charles,
> > > > >
> > > > > I will listen out for you.
> > > > >
> > > > > If its noisy on 3.690 I will post a clear frequency here.
> > > > >
> > > > > Steve
> > > > >
> > > > > On 23/03/2011 20:43, g3oth wrote:
> > > > > > Steve, its a pity you have changed your mind as I am sure it would have been a

lot quieter up there !
> > > > > > 73 de Charles G3OTH
> > > > > > PS please listen for me on Sunday as I hope to get on if condx permit.
> > > > > >
> > > > > > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> > > > > >> OK, before any one tells me the frequency should have been 3.690MHz,
> > > > > >> that below is out of band!
> > > > > >>
> > > > > >> Steve
> > > > > >>
> > > > > >> On 23/03/2011 19:30, Steve Drury wrote:
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> > > > > >>> Steve G6ALU
> > > > > >>>
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> > > > > > Yahoo! Groups Links
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>

1974. Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-27 09:11:55 UTC
From: g3oth
Topic: 1965 Message: 1974

Thanks
I can hear some voices there but nothing intelligible unfortunately here.
Charles

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
>
> 3691
> just one kc over previous frequency
> but now qrm is higher, and i loose G3SEW time to time
>
> 73
>
> --- In mkars80@yahoogroups.co.uk, "g3oth" <g3oth@> wrote:
> >
> > Good Morning all
> > I have been listening here up in Northumberland since 9.30 on and around 3690 but heard nothing of the net. What frequency are you all using please if not on 3690 ?
> > 73 de Charles G3OTH
> >
> > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > >
> > >
> > > I copy G3SEW 55 with qsb, but other stns were too weak - using the Mkars80 and a 50W/70W amp, antenna is a vertical delta loop for 40m
> > > - Thks for qso - 73 to all the group - F6EHP Pascal
> > >
> > > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > > >
> > > > Hi, I will try to be there, but I doubt anyone can hear me with 5W ! French local time will be 10:30 , 73 Pascal F6EHP
> > > >
> > > > --- In mkars80@..., "g3sew" <g3sew@> wrote:
> > > > >
> > > > >
> > > > > Also hoping to join the net.
> > > > >
> > > > >
> > > > > Lee G3SEW
> > > > >
> > > > > --- In mkars80@..., Steve Drury <g6alu@> wrote:
> > > > > >
> > > > > > Charles,
> > > > > >
> > > > > > I will listen out for you.

> > > > > >
> > > > > > If its noisy on 3.690 I will post a clear frequency here.
> > > > > >
> > > > > > Steve
> > > > > >
> > > > > > On 23/03/2011 20:43, g3oth wrote:
> > > > > > > Steve, its a pity you have changed your mind as I am sure it would have been
a lot quieter up there !
> > > > > > > 73 de Charles G3OTH
> > > > > > > PS please listen for me on Sunday as I hope to get on if condx permit.
> > > > > > >
> > > > > > > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> > > > > > >> OK, before any one tells me the frequency should have been 3.690MHz,
> > > > > > >> that below is out of band!
> > > > > > >>
> > > > > > >> Steve
> > > > > > >>
> > > > > > >> On 23/03/2011 19:30, Steve Drury wrote:
> > > > > > >>> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
> > > > > > >>> (remember the clocks go forward!), frequency will be the QRP centre of
> > > > > > >>> activity 3.960MHz so lets hope we don't get walked over.
> > > > > > >>>
> > > > > > >>> Regards,
> > > > > > >>> Steve G6ALU
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> > > > > > >>> ------------------------------------
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1975. Re: [mkars80] Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-27 09:24:35 UTC
From: Steve Drury
Topic: 1965 Message: 1975

Hi Pascal, we heard you!

The tally for the net was as follows:

G3SEW - Lee - St Albans
M0MMI - Mick - St Albans
M1CXK - Allen - Dartfort
G3YLW - Phil - Kings Lynn
F6EHP - Pascal - St Pol deLeon, France
G3UD - Graham - Stoke on Trent

Thanks go to Lee for being "net controller", he was using an MKARS80
with additional power amp which helped out by moving the gate crashers!

We plan to have another go next week.

Regards,
Steve G6ALU

On 26/03/2011 18:43, Pascal wrote:
> Hi, I will try to be there, but I doubt anyone can hear me with 5W ! French local time
will be 10:30 , 73 Pascal F6EHP
>
> --- In mkars80@..., "g3sew"<g3sew@...> wrote:
>>
>> Also hoping to join the net.
>>
>>
>> Lee G3SEW
>>
>> --- In mkars80@..., Steve Drury<g6alu@> wrote:
>>> Charles,
>>>
>>> I will listen out for you.
>>>
>>> If its noisy on 3.690 I will post a clear frequency here.
>>>
>>> Steve
>>>
>>> On 23/03/2011 20:43, g3oth wrote:
>>>> Steve, its a pity you have changed your mind as I am sure it would have been a lot
quieter up there !
>>>> 73 de Charles G3OTH
>>>> PS please listen for me on Sunday as I hope to get on if condx permit.
>>>>
>>>> --- In mkars80@..., Steve Drury<g6alu@> wrote:

>>>>> OK, before any one tells me the frequency should have been 3.690MHz,
>>>>> that below is out of band!
>>>>>
>>>>> Steve
>>>>>
>>>>> On 23/03/2011 19:30, Steve Drury wrote:
>>>>>> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
>>>>>> (remember the clocks go forward!), frequency will be the QRP centre of
>>>>>> activity 3.960MHz so lets hope we don't get walked over.
>>>>>>
>>>>>> Regards,
>>>>>> Steve G6ALU
>>>>>>
>>>>>>
>>>>>> ------------------------------------
>>>>>>
>>>>>> Yahoo! Groups Links
>>>>>>
>>>>>>
>>>>>>
>>>>>>
>>>>>>
>>>>>> -----
>>>>>> No virus found in this message.
>>>>>> Checked by AVG - www.avg.com
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>>>> Yahoo! Groups Links
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>>>> Checked by AVG - www.avg.com
>>>> Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
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>
> Yahoo! Groups Links

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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3529 - Release Date: 03/25/11
>
>

1976. Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-27 14:58:30 UTC
From: g3sew
Topic: 1965 Message: 1976

Good to hear everybody on the net this morning. Shame there is so much activity on adjacent channels!

Definitely worth another try next weekend.

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Hi Pascal, we heard you!
>
> The tally for the net was as follows:
>
> G3SEW - Lee - St Albans
> M0MMI - Mick - St Albans
> M1CXK - Allen - Dartfort
> G3YLW - Phil - Kings Lynn
> F6EHP - Pascal - St Pol deLeon, France
> G3UD - Graham - Stoke on Trent
>
> Thanks go to Lee for being "net controller", he was using an MKARS80
> with additional power amp which helped out by moving the gate crashers!
>
> We plan to have another go next week.
>
> Regards,
> Steve G6ALU
>
> On 26/03/2011 18:43, Pascal wrote:
> > Hi, I will try to be there, but I doubt anyone can hear me with 5W ! French local time will be 10:30 , 73 Pascal F6EHP
> >
> > --- In mkars80@yahoogroups.co.uk, "g3sew"<g3sew@> wrote:
> >>
> >> Also hoping to join the net.
> >>
> >>
> >> Lee G3SEW
> >>
> >> --- In mkars80@..., Steve Drury<g6alu@> wrote:
> >>> Charles,
> >>>
> >>> I will listen out for you.
> >>>
> >>> If its noisy on 3.690 I will post a clear frequency here.
> >>>

> >>> Steve
> >>>
> >>> On 23/03/2011 20:43, g3oth wrote:
> >>>> Steve, its a pity you have changed your mind as I am sure it would have been a lot quieter up there !
> >>>> 73 de Charles G3OTH
> >>>> PS please listen for me on Sunday as I hope to get on if condx permit.
> >>>>
> >>>> --- In mkars80@..., Steve Drury<g6alu@> wrote:
> >>>>> OK, before any one tells me the frequency should have been 3.690MHz,
> >>>>> that below is out of band!
> >>>>>
> >>>>> Steve
> >>>>>
> >>>>> On 23/03/2011 19:30, Steve Drury wrote:
> >>>>>> We are planning to hold an MKARS80 net this Sunday at 9:30 UK time
> >>>>>> (remember the clocks go forward!), frequency will be the QRP centre of
> >>>>>> activity 3.960MHz so lets hope we don't get walked over.
> >>>>>>
> >>>>>> Regards,
> >>>>>> Steve G6ALU
> >>>>>>
> >>>>>>
> >>>>>> ------------------------------------
> >>>>>>
> >>>>>> Yahoo! Groups Links
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> >>>>>>
> >>>>>> -----
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> >>>>>> Version: 10.0.1204 / Virus Database: 1498/3524 - Release Date: 03/23/11
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1204 / Virus Database: 1498/3529 - Release Date: 03/25/11
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>

1977. Re: [mkars80] Re: MKARS80 net on Sunday

Yahoo group: mkars80
Date: 2011-03-27 15:09:32 UTC
From: Trygve Sjothun
Topic: 1965 Message: 1977

I got there a little late but there was so much noise on the band (on my end) that I didn't persist. The bottom line is that I need to get my antenna life sorted out. I'll dial in again next week hopefully.

Cheers,

Tryg

--
"Our virtues and our failings are inseparable, like force and matter. When they separate, man is no more." Nikola Tesla 1857 - 1943

[Non-text portions of this message have been removed]

1978. sunday net

Yahoo group: mkars80
Date: 2011-03-27 16:39:35 UTC
From: phil lascelles
Topic: 1370 Message: 1978

Hi enjoyed this mornings net .Had a high background noise running mkrs80 I finished a few months back into modest trap dipole what a great little rig Steve I would love a top band version .Steve peaked 5&6 with me at times but there was a lot of qsb on the signal .Lee was a good copy most the time . Sorry didnt hear much from the other stations Look forward to trying again Phil (g3ylw)

[Non-text portions of this message have been removed]

1979. Re: [mkars80] Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2011-03-27 16:41:00 UTC
From: Bengt Johansson
Topic: 1944 Message: 1979

I will probably buy an Yaesu MH 84, which should work with a modified plug. I downloaded a diagram on the net.

Bengt/SM7CFF
----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Sunday, March 20, 2011 7:53 PM
Subject: Re: [mkars80] Re: Microphone for MKARS80

I use a low cost computer desk microphone purchased from a common
superstore (Tescos), you need to rewire the switch as normally they are
in series with the electret element, you need to wire it as a separate
push to talk.

Steve G6ALU

On 20/03/2011 12:51, Bengt Johansson wrote:
> Thanks for the info, but I have to attach an outside S/M switch.
> Maybe I am asking for something that does'nt exist, i.e. with an built-in S/M swiitch?
>
>
> [Non-text portions of this message have been removed]
>
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> ------------------------------------
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3517 - Release Date: 03/19/11
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[Non-text portions of this message have been removed]

1980. Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-27 16:50:31 UTC
From: g3sew
Topic: 1980 Message: 1980

Steve,

I mentioned that I had some kind of image on 3.727. I have listened more carefully, and it actually appears to zero-beat at 3.7265. Oddly there seems to be two commercial stations which appear on top of each other at this frequency - very strange. One of them is 'Sunshine Radio', which according to its website is on 1.452MHz. I can't work out how this can mix to give an output on the 10MHz IF. If I preceed the MKARS with a tuned preamp, it disappears. Also I don't get this effect with my ICOM switched to the same ant. But I seem to remember exactly the same thing happening with the Epiphyte. This is very odd, since it was also on 3.727 approx, and I think that it was the same broadcast station that I heard - and again a tuned preamp got rid of it. It is the more strange since the Epiphyte uses a 455KHz IF. I can also hear a stronger version of Sunshine Radio on 3.542 on the MKARS. There is also something on 3.665.

My MKARS is not in a box, but since the unwanted signal disappears when I unplug the antenna, or insert the tuned preamp, this probably isn't the cause?

Any ideas?

Lee G3SEW

1981. Re: [mkars80] Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-27 17:11:36 UTC
From: Steve Drury
Topic: 1980 Message: 1981

Lee,

Its probably getting into the IF - try putting it into a (metal) box if only temporary to see if it cures the problem, remember there is no other screening on the MKARS80.

If you bring your fingers close to the crystal filter does it get worse?

Steve

On 27/03/2011 17:50, g3sew wrote:
> Steve,
>
> I mentioned that I had some kind of image on 3.727. I have listened more carefully, and it actually appears to zero-beat at 3.7265. Oddly there seems to be two commercial stations which appear on top of each other at this frequency - very strange. One of them is 'Sunshine Radio', which according to its website is on 1.452MHz. I can't work out how this can mix to give an output on the 10MHz IF. If I preceed the MKARS with a tuned preamp, it disappears. Also I don't get this effect with my ICOM switched to the same ant. But I seem to remember exactly the same thing happening with the Epiphyte. This is very odd, since it was also on 3.727 approx, and I think that it was the same broadcast station that I heard - and again a tuned preamp got rid of it. It is the more strange since the Epiphyte uses a 455KHz IF. I can also hear a stronger version of Sunshine Radio on 3.542 on the MKARS. There is also something on 3.665.
>
> My MKARS is not in a box, but since the unwanted signal disappears when I unplug the antenna, or insert the tuned preamp, this probably isn't the cause?
>
> Any ideas?
>
>
> Lee G3SEW
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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> -----
> No virus found in this message.

> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3532 - Release Date: 03/26/11
>
>

1982. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-27 18:59:14 UTC
From: g3sew
Topic: 1980 Message: 1982

Thanks Steve,

It didn't seem to get worse when touching near to the filter. But I like the idea of a screened box test. Will report back.

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Lee,
>
> Its probably getting into the IF - try putting it into a (metal) box if
> only temporary to see if it cures the problem, remember there is no
> other screening on the MKARS80.
>
> If you bring your fingers close to the crystal filter does it get worse?
>
> Steve
>
> On 27/03/2011 17:50, g3sew wrote:
> > Steve,
> >
> > I mentioned that I had some kind of image on 3.727. I have listened more carefully, and it actually appears to zero-beat at 3.7265. Oddly there seems to be two commercial stations which appear on top of each other at this frequency - very strange. One of them is 'Sunshine Radio', which according to its website is on 1.452MHz. I can't work out how this can mix to give an output on the 10MHz IF. If I preceed the MKARS with a tuned preamp, it disappears. Also I don't get this effect with my ICOM switched to the same ant. But I seem to remember exactly the same thing happening with the Epiphyte. This is very odd, since it was also on 3.727 approx, and I think that it was the same broadcast station that I heard - and again a tuned preamp got rid of it. It is the more strange since the Epiphyte uses a 455KHz IF. I can also hear a stronger version of Sunshine Radio on 3.542 on the MKARS. There is also something on 3.665.
> >
> > My MKARS is not in a box, but since the unwanted signal disappears when I unplug the antenna, or insert the tuned preamp, this probably isn't the cause?
> >
> > Any ideas?
> >
> >
> > Lee G3SEW
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> > Yahoo! Groups Links
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>

1983. Re: [mkars80] Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-27 21:52:03 UTC
From: K.Greenough
Topic: 1980 Message: 1983

Hello Lee,
That sounds like intermodulation, two strong signals mix
[or harmonics of them] to produce the signal you hear.
The extra tuned circuits in your preamp reduce the signals
strength sufficiently so that they don't cause the intermod' .
73 Ken g8beq

[Non-text portions of this message have been removed]

1984. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-28 07:30:37 UTC
From: g3sew
Topic: 1980 Message: 1984

Hello Ken,

Yes - I was trying to work out the numbers, but nothing seemed to make sense. And I am not particularly near to any broadcast antennas either. More research needed I think.

Lee G3SEW

--- In mkars80@yahoogroups.co.uk, "K.Greenough" <g0wbm@...> wrote:
>
> Hello Lee,
> That sounds like intermodulation, two strong signals mix
> [or harmonics of them] to produce the signal you hear.
> The extra tuned circuits in your preamp reduce the signals
> strength sufficiently so that they don't cause the intermod' .
> 73 Ken g8beq
>
>
> [Non-text portions of this message have been removed]
>

1985. Re: [mkars80] Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-28 17:19:04 UTC
From: Steve Drury
Topic: 1980 Message: 1985

Does the level go up and down as you adjust the RF gain?

Steve G6ALU

On 27/03/2011 18:11, Steve Drury wrote:
> Lee,
>
> Its probably getting into the IF - try putting it into a (metal) box if
> only temporary to see if it cures the problem, remember there is no
> other screening on the MKARS80.
>
> If you bring your fingers close to the crystal filter does it get worse?
>
> Steve
>
> On 27/03/2011 17:50, g3sew wrote:
>> Steve,
>>
>> I mentioned that I had some kind of image on 3.727. I have listened more carefully, and it actually appears to zero-beat at 3.7265. Oddly there seems to be two commercial stations which appear on top of each other at this frequency - very strange. One of them is 'Sunshine Radio', which according to its website is on 1.452MHz. I can't work out how this can mix to give an output on the 10MHz IF. If I preceed the MKARS with a tuned preamp, it disappears. Also I don't get this effect with my ICOM switched to the same ant. But I seem to remember exactly the same thing happening with the Epiphyte. This is very odd, since it was also on 3.727 approx, and I think that it was the same broadcast station that I heard - and again a tuned preamp got rid of it. It is the more strange since the Epiphyte uses a 455KHz IF. I can also hear a stronger version of Sunshine Radio on 3.542 on the MKARS. There is also something on 3.665.
>>
>> My MKARS is not in a box, but since the unwanted signal disappears when I unplug the antenna, or insert the tuned preamp, this probably isn't the cause?
>>
>> Any ideas?
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>> Lee G3SEW
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>> Yahoo! Groups Links
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>> -----
>> No virus found in this message.
>> Checked by AVG - www.avg.com
>> Version: 10.0.1204 / Virus Database: 1498/3532 - Release Date: 03/26/11
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1986. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-28 18:50:28 UTC
From: g3sew
Topic: 1980 Message: 1986

The level goes down when the RF gain is turned down, in the same way as a normal signal. There is no dramatic drop off as the gain is turned down, as sometimes happens when you have breakthrough.

I have now tried boxing the rig, and unfortunately, that doesn't make any difference.

My next step is to swap rigs with Mick M0MMI, so that I can try his MKARS on my antenna, and he can try mine on his antenna, and see if the problem is specific to my rig, or to my antenna, or both.

Lee G3SEW

--- In mkars80@....uk, Steve Drury <g6alu@...> wrote:
>
> Does the level go up and down as you adjust the RF gain?
>
> Steve G6ALU
>
> On 27/03/2011 18:11, Steve Drury wrote:
> > Lee,
> >
> > Its probably getting into the IF - try putting it into a (metal) box if
> > only temporary to see if it cures the problem, remember there is no
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> > If you bring your fingers close to the crystal filter does it get worse?
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> > Steve
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> >> Steve,
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> >>
> >> My MKARS is not in a box, but since the unwanted signal disappears when I unplug the antenna, or insert the tuned preamp, this probably isn't the cause?

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>

1987. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-28 19:42:13 UTC
From: K.Greenough
Topic: 1980 Message: 1987

Hello Lee,
The only Sunshine radio I can find record of on MW
Iis on 855 KHz.
73 Ken g8beq

[Non-text portions of this message have been removed]

1988. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 07:28:20 UTC
From: g3sew
Topic: 1980 Message: 1988

Ken

Thanks for that. I will try putting the numbers into the mix.

Lee G3SEW

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello Lee,
> The only Sunshine radio I can find record of on MW
> Iis on 855 KHz.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

1989. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 09:40:44 UTC
From: K.Greenough
Topic: 1980 Message: 1989

Hello Lee,
Sorry if this is obvious, but on your first mails you said
you couldn't find any " mix" that gave the 10 MHz IF, but
of course if it's intermod' then a mix to the 80m
frequency could be what you're looking for. That said,
the fact that the signal does not disappear when you reduce
the RF gain would suggest that it's not intermod' so it's a puzzle hi.
73 Ken g8beq

[Non-text portions of this message have been removed]

1990. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 11:05:27 UTC
From: Peter Fraser
Topic: 1980 Message: 1990

Hi All

OK, I'll have a stab at this.

at 3.7265 MHz the VFO is about 6.2735 MHz

(0.855 MHz x 3) subtracted from (6.2735 x 2) = 9.982 MHz close enough to the pass band of the Xtal filer, given the bandwidth of the AM transmission.

0.855 MHz x 3 is occuring in the first RF amplifier due to the high signal strength driving the transistor into distortion.

6.2735 MHz x 2 is a product of the VFO oscillator.

How to get rid of it?

I would suggest a series LC circuit resonant at 0.855 MHz connected to the receive side of the change over relay, or move away from the MW transmitter.

Of course I could be way off as well.

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

----- Original Message -----
From: g3sew
To: mkars80@...
Sent: Tuesday, March 29, 2011 6:28 PM
Subject: [mkars80] Re: Weird image on my MKARS

Ken

Thanks for that. I will try putting the numbers into the mix.

Lee G3SEW

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello Lee,
> The only Sunshine radio I can find record of on MW
> Iis on 855 KHz.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1991. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 11:05:27 UTC
From: Peter Fraser
Topic: 1980 Message: 1991

Hi All

OK, I'll have a stab at this.

at 3.7265 MHz the VFO is about 6.2735 MHz

(0.855 MHz x 3) subtracted from (6.2735 x 2) = 9.982 MHz close enough to the pass band of the Xtal filer, given the bandwidth of the AM transmission.

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How to get rid of it?

I would suggest a series LC circuit resonant at 0.855 MHz connected to the receive side of the change over relay, or move away from the MW transmitter.

Of course I could be way off as well.

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

----- Original Message -----
From: g3sew
To: mkars80@...
Sent: Tuesday, March 29, 2011 6:28 PM
Subject: [mkars80] Re: Weird image on my MKARS

Ken

Thanks for that. I will try putting the numbers into the mix.

Lee G3SEW

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
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> Hello Lee,
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> Iis on 855 KHz.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1992. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 15:23:14 UTC
From: K.Greenough
Topic: 1980 Message: 1992

Hello Peter,
That mixing process is certainly possible but when the
RF gain is turned down you'd expect the interference to
disappear. Lee also says he's heard it on another Rx
which I think has a different IF. I did wonder if signals
were being mixed elsewhere, ie the old rusty drainpipe
stories that used to abound at one time. But Lee says
that he doesn't hear it on his Icom transceiver.
I have paid particular notice to this as I have experienced
similar problems, I used to hear BBC R5 on top band and
so did another local amateur. It turned out to be the second
harmonic of the 909 KHz transmission from Moorside Edge
[about 40 miles away]. The other local worked for a big comm's
firm so when he reported it they listened to him and it disappeared.
I have a mast about half a mile from me which carries High Peak
radio on 106.4 MHz FM. Many FM RXs in my house hear this station
superimposed on all others, better quality RXs are clear. But I can
hear it, very distorted, at many spots on SW using older RXs, the local
osc' is multiplied up and beats with it. The FM signal is so strong I
can read it on a field strength meter and it's a nuisance when signal
tracing in equipment, counters read 106.4 and I read RF at all sorts
of strange places. It took me a few weeks after this station came on air
to realise what was happening. Anyway that's strayed somewhat from
Lee's problem, I would imagine Lee, that an ATU or BPF would cure your problem.
73 Ken g8beq

[Non-text portions of this message have been removed]

1993. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 16:23:33 UTC
From: g3sew
Topic: 1980 Message: 1993

Peter and Ken - thanks very much for your replies. It looks as if the mixing is happening in the MKARS itself, and Peter's calculations look very good.

Mick M0MMI dropped his MKARS around just now, and his is completely clean. So we have narrowed it down to building errors (shocking!). Further tests seem to show that if I feed the antenna in at the change over relay (ie after the low pass filter) the problem disappears.

I have resoldered the joints in the low pass filter, but with no change. And resistance readings along the filter are also good.

Oddly, I find that I can almost null out the unwanted stations on both 3.7265 and also 3.542 by adjusting the RF gain control. When I take it to about one eighth of a turn from max gain, the unwanted signals drop right down. They come up a bit as I reduce the volume past that point (anticlockwise), then they reduce again as I continue to turn the gain anti-clockwise. But this may just be finding the optimum imput impedance for the high pass filter immediately before the first RF transistor.

When I try injecting the antenna signal at different points along the low pass filter, I find that injecting at the junction of L1 and L2 the unwanted signal is incredibly loud (much louder than at the antenna). Between L2 and L3 it is quieter than at the antenna socket, while at the right hand end of L3 it is barely perceptible.

Lee G3SEW

--- In mkars80@yahoogroups.co.uk, "K.Greenough" <g0wbm@...> wrote:
>
> Hello Peter,
> That mixing process is certainly possible but when the
> RF gain is turned down you'd expect the interference to
> disappear. Lee also says he's heard it on another Rx
> which I think has a different IF. I did wonder if signals
> were being mixed elsewhere, ie the old rusty drainpipe
> stories that used to abound at one time. But Lee says
> that he doesn't hear it on his Icom transceiver.
> I have paid particular notice to this as I have experienced
> similar problems, I used to hear BBC R5 on top band and
> so did another local amateur. It turned out to be the second
> harmonic of the 909 KHz transmission from Moorside Edge
> [about 40 miles away]. The other local worked for a big comm's
> firm so when he reported it they listened to him and it disappeared.
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> radio on 106.4 MHz FM. Many FM RXs in my house hear this station
> superimposed on all others, better quality RXs are clear. But I can
> hear it, very distorted, at many spots on SW using older RXs, the local
> osc' is multiplied up and beats with it. The FM signal is so strong I

> can read it on a field strength meter and it's a nuisance when signal
> tracing in equipment, counters read 106.4 and I read RF at all sorts
> of strange places. It took me a few weeks after this station came on air
> to realise what was happening. Anyway that's strayed somewhat from
> Lee's problem, I would imagine Lee, that an ATU or BPF would cure your problem.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

1994. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 19:42:28 UTC
From: Steve Drury
Topic: 1980 Message: 1994

Lee,

If the intermod is happening inside your radio I would go for the first mixer - did Mick's radio seem any more sensitive than yours?

Check the soldering on each of the mixer transformer wires, if no luck there try some more diodes - I can send you some if that helps.

Steve G6ALU

On 29/03/2011 17:23, g3sew wrote:
> Peter and Ken - thanks very much for your replies. It looks as if the mixing is happening in the MKARS itself, and Peter's calculations look very good.
>
> Mick M0MMI dropped his MKARS around just now, and his is completely clean. So we have narrowed it down to building errors (shocking!). Further tests seem to show that if I feed the antenna in at the change over relay (ie after the low pass filter) the problem disappears.
>
> I have resoldered the joints in the low pass filter, but with no change. And resistance readings along the filter are also good.
>
> Oddly, I find that I can almost null out the unwanted stations on both 3.7265 and also 3.542 by adjusting the RF gain control. When I take it to about one eighth of a turn from max gain, the unwanted signals drop right down. They come up a bit as I reduce the volume past that point (anticlockwise), then they reduce again as I continue to turn the gain anti-clockwise. But this may just be finding the optimum imput impedance for the high pass filter immediately before the first RF transistor.
>
> When I try injecting the antenna signal at different points along the low pass filter, I find that injecting at the junction of L1 and L2 the unwanted signal is incredibly loud (much louder than at the antenna). Between L2 and L3 it is quieter than at the antenna socket, while at the right hand end of L3 it is barely perceptible.
>
>
> Lee G3SEW
>
>
>
> --- In mkars80@..., "K.Greenough"<g0wbm@...> wrote:
>> Hello Peter,
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>> RF gain is turned down you'd expect the interference to
>> disappear. Lee also says he's heard it on another Rx
>> which I think has a different IF. I did wonder if signals
>> were being mixed elsewhere, ie the old rusty drainpipe

>> stories that used to abound at one time. But Lee says
>> that he doesn't hear it on his Icom transceiver.
>> I have paid particular notice to this as I have experienced
>> similar problems, I used to hear BBC R5 on top band and
>> so did another local amateur. It turned out to be the second
>> harmonic of the 909 KHz transmission from Moorside Edge
>> [about 40 miles away]. The other local worked for a big comm's
>> firm so when he reported it they listened to him and it disappeared.
>> I have a mast about half a mile from me which carries High Peak
>> radio on 106.4 MHz FM. Many FM RXs in my house hear this station
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>> hear it, very distorted, at many spots on SW using older RXs, the local
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>> can read it on a field strength meter and it's a nuisance when signal
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>> to realise what was happening. Anyway that's strayed somewhat from
>> Lee's problem, I would imagine Lee, that an ATU or BPF would cure your problem.
>> 73 Ken g8beq
>>
>> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1204 / Virus Database: 1498/3535 - Release Date: 03/28/11
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1995. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 19:53:02 UTC
From: g3sew
Topic: 1980 Message: 1995

Steve,

Mick's radio had the same sensitivity as mine.

Doesn't the fact that when I attached the antenna to the relay side of C52 (ie just before the RF gain control), and that there was no interference when I did this, that the fault probably lies between the changeover relay and the antenna socket (ie somewhere in the LPF)?

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Lee,
>
> If the intermod is happening inside your radio I would go for the first
> mixer - did Mick's radio seem any more sensitive than yours?
>
> Check the soldering on each of the mixer transformer wires, if no luck
> there try some more diodes - I can send you some if that helps.
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> Steve G6ALU
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> >
> >
> > Lee G3SEW
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> >
> > --- In mkars80@..., "K.Greenough"<g0wbm@> wrote:
> >> Hello Peter,
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> >> RF gain is turned down you'd expect the interference to
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> >> which I think has a different IF. I did wonder if signals
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> >> [Non-text portions of this message have been removed]
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> > Version: 10.0.1204 / Virus Database: 1498/3535 - Release Date: 03/28/11

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1996. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-29 21:07:47 UTC
From: Steve Drury
Topic: 1980 Message: 1996

Lee,

Sorry I didn't read your last mail properly... relay contacts perhaps
although I would have thought operating the relay a few times would have
"cleaned" them.

How strong is the interfering signal - do you have a general coverage
receiver you can receive it with?

Its certainly an interesting one!

Steve G6ALU

On 29/03/2011 20:53, g3sew wrote:
> Steve,
>
> Mick's radio had the same sensitivity as mine.
>
> Doesn't the fact that when I attached the antenna to the relay side of C52 (ie just before the RF gain control), and that there was no interference when I did this, that the fault probably lies between the changeover relay and the antenna socket (ie somewhere in the LPF)?
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>>> Lee G3SEW
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>>> --- In mkars80@..., "K.Greenough"<g0wbm@> wrote:
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1997. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-30 08:29:02 UTC
From: g3sew
Topic: 1980 Message: 1997

Steve,

If I connect the antenna at the RH end of the LPF I get no intermod - so I can't blame the relay. I really think that the fault must be between the ant socket and the RH end of the LPF - ie somewhere in the LPF itself.

I have just checked medium wave, and I don't hear Sunshine radio on 855KHz at all, but it is 60dB over S9 on 1.458MHz. Mick's MKARS just shows how good the image rejection is on the rig - if you don't screw up something in the build process :-)

In response to Ken, the ATU doesn't make any difference unfortunately (though since a tuned RF preamp does get rid of it, I don't think we can deduce anything from this).

The next plan is to short out sections of the LPF.

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Lee,
>
> Sorry I didn't read your last mail properly... relay contacts perhaps
> although I would have thought operating the relay a few times would have
> "cleaned" them.
>
> How strong is the interfering signal - do you have a general coverage
> receiver you can receive it with?
>
> Its certainly an interesting one!
>
> Steve G6ALU
>
> On 29/03/2011 20:53, g3sew wrote:
> > Steve,
> >
> > Mick's radio had the same sensitivity as mine.
> >
> > Doesn't the fact that when I attached the antenna to the relay side of C52 (ie just before the RF gain control), and that there was no interference when I did this, that the fault probably lies between the changeover relay and the antenna socket (ie somewhere in the LPF)?
> >
> >
> > Lee G3SEW
> >
> >

> > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> >> Lee,
> >>
> >> If the intermod is happening inside your radio I would go for the first
> >> mixer - did Mick's radio seem any more sensitive than yours?
> >>
> >> Check the soldering on each of the mixer transformer wires, if no luck
> >> there try some more diodes - I can send you some if that helps.
> >>
> >> Steve G6ALU
> >>
> >> On 29/03/2011 17:23, g3sew wrote:
> >>> Peter and Ken - thanks very much for your replies. It looks as if the mixing is happening in the MKARS itself, and Peter's calculations look very good.
> >>>
> >>> Mick M0MMI dropped his MKARS around just now, and his is completely clean. So we have narrowed it down to building errors (shocking!). Further tests seem to show that if I feed the antenna in at the change over relay (ie after the low pass filter) the problem disappears.
> >>>
> >>> I have resoldered the joints in the low pass filter, but with no change. And resistance readings along the filter are also good.
> >>>
> >>> Oddly, I find that I can almost null out the unwanted stations on both 3.7265 and also 3.542 by adjusting the RF gain control. When I take it to about one eighth of a turn from max gain, the unwanted signals drop right down. They come up a bit as I reduce the volume past that point (anticlockwise), then they reduce again as I continue to turn the gain anti-clockwise. But this may just be finding the optimum imput impedance for the high pass filter immediately before the first RF transistor.
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> >>> When I try injecting the antenna signal at different points along the low pass filter, I find that injecting at the junction of L1 and L2 the unwanted signal is incredibly loud (much louder than at the antenna). Between L2 and L3 it is quieter than at the antenna socket, while at the right hand end of L3 it is barely perceptible.
> >>>
> >>>
> >>> Lee G3SEW
> >>>
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> >>> --- In mkars80@..., "K.Greenough"<g0wbm@> wrote:
> >>>> Hello Peter,
> >>>> That mixing process is certainly possible but when the
> >>>> RF gain is turned down you'd expect the interference to
> >>>> disappear. Lee also says he's heard it on another Rx
> >>>> which I think has a different IF. I did wonder if signals
> >>>> were being mixed elsewhere, ie the old rusty drainpipe
> >>>> stories that used to abound at one time. But Lee says
> >>>> that he doesn't hear it on his Icom transceiver.
> >>>> I have paid particular notice to this as I have experienced

> >>>> similar problems, I used to hear BBC R5 on top band and
> >>>> so did another local amateur. It turned out to be the second
> >>>> harmonic of the 909 KHz transmission from Moorside Edge
> >>>> [about 40 miles away]. The other local worked for a big comm's
> >>>> firm so when he reported it they listened to him and it disappeared.
> >>>> I have a mast about half a mile from me which carries High Peak
> >>>> radio on 106.4 MHz FM. Many FM RXs in my house hear this station
> >>>> superimposed on all others, better quality RXs are clear. But I can
> >>>> hear it, very distorted, at many spots on SW using older RXs, the local
> >>>> osc' is multiplied up and beats with it. The FM signal is so strong I
> >>>> can read it on a field strength meter and it's a nuisance when signal
> >>>> tracing in equipment, counters read 106.4 and I read RF at all sorts
> >>>> of strange places. It took me a few weeks after this station came on air
> >>>> to realise what was happening. Anyway that's strayed somewhat from
> >>>> Lee's problem, I would imagine Lee, that an ATU or BPF would cure your problem.
> >>>> 73 Ken g8beq
> >>>>
> >>>> [Non-text portions of this message have been removed]
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> >>> ------------------------------------
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> >>> Yahoo! Groups Links
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> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
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> >
> >
>

1998. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-30 10:23:48 UTC
From: K.Greenough
Topic: 1980 Message: 1998

Hello Lee,
According to the "Radio listeners guide" Sunshine radio is
on 855 KHz, but there are a couple of stations "Sunrise radio"
on 1458 KHz. Mind you these stations change owners and
names about once a week hi.
73 Ken g8beq

[Non-text portions of this message have been removed]

1999. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-30 11:03:42 UTC
From: g3sew
Topic: 1980 Message: 1999

Hello Ken,

Sorry. It was Sunrise Radio (not Sunshine). Just had to listen through 15 minutes of ads and eastern music to get the ident! This is more logical since they are 60 over 9 here on 1.458.

Lee G3SEW

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello Lee,
> According to the "Radio listeners guide" Sunshine radio is
> on 855 KHz, but there are a couple of stations "Sunrise radio"
> on 1458 KHz. Mind you these stations change owners and
> names about once a week hi.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

2000. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-30 12:31:29 UTC
From: g6alu@tiscali.co.uk
Topic: 1980 Message: 2000

Lee, re the ATU it depends on what type it is, low pass "PI" - capacitor to ground each end or high pass "T", inductor to ground in the middle.

Unless
its a home made one then its likely to be a "T" type which is interesting as it should have at least reduced the level of signal input.

Did you use the same connector / adaptor to attach your antenna to your rig as to Mick's rig? If its in the LPF I can only think there is a problem with one of the capacitors.

Regards,

Steve G6ALU

>----Original Message----

>From: g3sew@...

>Date: 30/03/2011 9:29

>To: <mkars80@...>

>Subj: [mkars80] Re: Weird image on my MKARS

>

>Steve,

>

>If I connect the antenna at the RH end of the LPF I get no intermod - so I can't blame the relay. I really think that the fault must be between the ant socket and the RH end of the LPF - ie somewhere in the LPF itself.

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>I have just checked medium wave, and I don't hear Sunshine radio on 855KHz at all, but it is 60dB over S9 on 1.458MHz. Mick's MKARS just shows how good the image rejection is on the rig - if you don't screw up something in the build process :-)

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>In response to Ken, the ATU doesn't make any difference unfortunately (though since a tuned RF preamp does get rid of it, I don't think we

can deduce anything from this).

>

>The next plan is to short out sections of the LPF.

>

>

>Lee G3SEW

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>--- In mkars80@..., Steve Drury <g6alu@...> wrote:

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>> Lee,

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>> Sorry I didn't read your last mail properly... relay contacts
perhaps

>> although I would have thought operating the relay a few times would
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>> "cleaned" them.

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>> How strong is the interfering signal - do you have a general
coverage

>> receiver you can receive it with?

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>> Its certainly an interesting one!

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>> Steve G6ALU

>>

>> On 29/03/2011 20:53, g3sew wrote:

>> > Steve,

>> >

>> > Mick's radio had the same sensitivity as mine.

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>> > Doesn't the fact that when I attached the antenna to the relay side of C52 (ie just before the RF gain control), and that there was no interference when I did this, that the fault probably lies between the changeover relay and the antenna socket (ie somewhere in the LPF)?

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>> > Lee G3SEW

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>> > --- In mkars80@..., Steve Drury<g6alu@> wrote:

>> >> Lee,

>> >>

>> >> If the intermod is happening inside your radio I would go for the first

>> >> mixer - did Mick's radio seem any more sensitive than yours?

>> >>

>> >> Check the soldering on each of the mixer transformer wires, if no luck

>> >> there try some more diodes - I can send you some if that helps.

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>> >> Steve G6ALU

>> >>

>> >> On 29/03/2011 17:23, g3sew wrote:

>> >>> Peter and Ken - thanks very much for your replies. It looks as if the mixing is happening in the MKARS itself, and Peter's calculations look very good.

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>> >>> Mick M0MMI dropped his MKARS around just now, and his is completely clean. So we have narrowed it down to building errors (shocking!). Further tests seem to show that if I feed the antenna in at the change over relay (ie after the low pass filter) the problem disappears.

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>> >>> I have resoldered the joints in the low pass filter, but with no change. And resistance readings along the filter are also good.

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>> >>>

>> >>>

>> >>> Lee G3SEW

>> >>>

>> >>>

>> >>>

>> >>> --- In mkars80@..., "K.Greenough"<g0wbm@>
wrote:

>> >>>> Hello Peter,

>> >>>> That mixing process is certainly possible but when the

>> >>>> RF gain is turned down you'd expect the interference to

>> >>>> disappear. Lee also says he's heard it on another Rx

>> >>>> which I think has a different IF. I did wonder if signals

>> >>>> were being mixed elsewhere, ie the old rusty drainpipe

>> >>>> stories that used to abound at one time. But Lee says

>> >>>> that he doesn't hear it on his Icom transceiver.

>> >>>> I have paid particular notice to this as I have experienced

>> >>>> similar problems, I used to hear BBC R5 on top band and

>> >>>> so did another local amateur. It turned out to be the second

>> >>>> harmonic of the 909 KHz transmission from Moorside Edge

>> >>>> [about 40 miles away]. The other local worked for a big
comm's

>> >>>> firm so when he reported it they listened to him and it
disappeared.

>> >>>> I have a mast about half a mile from me which carries High
Peak

>> >>>> radio on 106.4 MHz FM. Many FM RXs in my house hear this
station

>> >>>> superimposed on all others, better quality RXs are clear. But I
can

>> >>>> hear it, very distorted, at many spots on SW using older RXs,
the local

>> >>>> osc' is multiplied up and beats with it. The FM signal is so
strong I

>> >>>> can read it on a field strength meter and it's a nuisance when
signal

>> >>>> tracing in equipment, counters read 106.4 and I read RF at all
sorts

>> >>>> of strange places. It took me a few weeks after this station
came on air

>> >>>> to realise what was happening. Anyway that's strayed somewhat
from

>> >>>> Lee's problem, I would imagine Lee, that an ATU or BPF would
cure your problem.

>> >>>> 73 Ken g8beq

>> >>>>

>> >>>> [Non-text portions of this message have been removed]

>> >>>>

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>> >>> ----------------------------------

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>> >>> Yahoo! Groups Links

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>> >>> -----

>> >>> No virus found in this message.

>> >>> Checked by AVG - www.avg.com
>> >>> Version: 10.0.1204 / Virus
Database: 1498/3535 - Release Date: 03/28/11

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>Yahoo! Groups Links

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> http://uk.groups.yahoo.com/group/mkars80/
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required)

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uk

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> mkars80-unsubscribe@...

>

> http://uk.docs.yahoo.com/info/terms.html
>

>

2001. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-30 13:11:19 UTC
From: g6alu@tiscali.co.uk
Topic: 1980 Message: 2001

A little bit of investigation shows that Sunrise radio is broadcast
from Brookmans Park with an ERP of 150kW, not suprising its strong!

See http://en.wikipedia.org/wiki/Brookmans_Park_transmitting_station

Despite looking through the list I can't work out the other signal
required, asuming its third order and the fact that Sunrise is
inteligable I make the possible "other" frequency:

3.727MHz - 1.458 = 2 x Unknown = 1.1345

or 3.727 + 1.458 = 2 x Unknown = 2.5925 or for fith order 1.296MHz

For the later I can find The World Service on 1.296MHz, very powerful
at 500kW from Orfordness but only transmitted at night and about 100kM
from you.

See http://frequencyfinder.org.uk/AM_153_1611.pdf

Steve G6ALU

>----Original Message----
>From: g3sew@...
>Date: 30/03/2011 12:03
>To: <mkars80@...>
>Subj: [mkars80] Re: Weird image on my MKARS
>
>Hello Ken,
>
>Sorry. It was Sunrise Radio (not Sunshine). Just had to listen
through 15 minutes of ads and eastern music to get the ident! This is
more logical since they are 60 over 9 here on 1.458.

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>Lee G3SEW

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>--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:

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>> Hello Lee,

>> According to the "Radio listeners guide" Sunshine radio is

>> on 855 KHz, but there are a couple of stations "Sunrise radio"

>> on 1458 KHz. Mind you these stations change owners and

>> names about once a week hi.

>> 73 Ken g8beq

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>> [Non-text portions of this message have been removed]

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>Yahoo! Groups Links

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required)

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uk

>

> mkars80-unsubscribe@...

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> http://uk.docs.yahoo.com/info/terms.html
>

>

2002. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-30 19:18:52 UTC
From: g3sew
Topic: 1980 Message: 2002

Steve,

The ATU is a commercial one, and I don't have the circuit.

Mick's MKARS was connected up exactly as mine here. I just swapped rigs. I have now found that if I bypass the LPF by connecting a wire between the ant socket and the far RH end of the LPF, the intermod is not there. So I am going to dismember the LPF.

Lee G3SEW

--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:
>
> Lee, re the ATU it depends on what type it is, low pass "PI" -
> capacitor to ground each end or high pass "T", inductor to ground in
> the middle.
>
> Unless
> its a home made one then its likely to be a "T" type which is
> interesting as it should have at least reduced the level of signal
> input.
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>
> Did you use the same connector / adaptor to attach your antenna to your
> rig as to Mick's rig? If its in the LPF I can only think there is a
> problem with one of the capacitors.
>
>
>
> Regards,
>
> Steve G6ALU
>
>
>
> >----Original Message----
>
> >From: g3sew@...
>
> >Date: 30/03/2011 9:29
>
> >To: <mkars80@yahoogroups.co.uk>
>
> >Subj: [mkars80] Re: Weird image on my MKARS
>
> >

>
> >Steve,
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> >
>
> >If I connect the antenna at the RH end of the LPF I get no intermod -
> so I can't blame the relay. I really think that the fault must be
> between the ant socket and the RH end of the LPF - ie somewhere in the
> LPF itself.
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> >I have just checked medium wave, and I don't hear Sunshine radio on
> 855KHz at all, but it is 60dB over S9 on 1.458MHz. Mick's MKARS just
> shows how good the image rejection is on the rig - if you don't screw
> up something in the build process :-)
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> >In response to Ken, the ATU doesn't make any difference unfortunately
> (though since a tuned RF preamp does get rid of it, I don't think we
> can deduce anything from this).
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> >The next plan is to short out sections of the LPF.
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> >> Lee,
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> cure your problem.
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> >> >>>> 73 Ken g8beq
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> >> >>>> [Non-text portions of this message have been removed]
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> > http://uk.groups.yahoo.com/group/mkars80/
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> > mkars80-unsubscribe@...
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> > http://uk.docs.yahoo.com/info/terms.html
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2003. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-30 19:29:11 UTC
From: Steve Drury
Topic: 1980 Message: 2003

Lee, it can't be the inductors, can it? Which leaves the capacitors...
do you want a new set?

Steve G6ALU

On 30/03/2011 20:18, g3sew wrote:
> Steve,
>
> The ATU is a commercial one, and I don't have the circuit.
>
> Mick's MKARS was connected up exactly as mine here. I just swapped rigs. I have now found that if I bypass the LPF by connecting a wire between the ant socket and the far RH end of the LPF, the intermod is not there. So I am going to dismember the LPF.
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> Lee G3SEW
>
>
> --- In mkars80@..., "g6alu@..."<g6alu@...> wrote:
>> Lee, re the ATU it depends on what type it is, low pass "PI" -
>> capacitor to ground each end or high pass "T", inductor to ground in
>> the middle.
>>
>> Unless
>> its a home made one then its likely to be a "T" type which is
>> interesting as it should have at least reduced the level of signal
>> input.
>>
>>
>>
>> Did you use the same connector / adaptor to attach your antenna to your
>> rig as to Mick's rig? If its in the LPF I can only think there is a
>> problem with one of the capacitors.
>>
>>
>>
>> Regards,
>>
>> Steve G6ALU
>>
>>
>>
>>> ----Original Message----
>>> From: g3sew@...
>>> Date: 30/03/2011 9:29

>>> To:<mkars80@...>
>>> Subj: [mkars80] Re: Weird image on my MKARS
>>> Steve,
>>> If I connect the antenna at the RH end of the LPF I get no intermod -
>> so I can't blame the relay. I really think that the fault must be
>> between the ant socket and the RH end of the LPF - ie somewhere in the
>> LPF itself.
>>
>>> I have just checked medium wave, and I don't hear Sunshine radio on
>> 855KHz at all, but it is 60dB over S9 on 1.458MHz. Mick's MKARS just
>> shows how good the image rejection is on the rig - if you don't screw
>> up something in the build process :-)
>>
>>> In response to Ken, the ATU doesn't make any difference unfortunately
>> (though since a tuned RF preamp does get rid of it, I don't think we
>> can deduce anything from this).
>>
>>> The next plan is to short out sections of the LPF.
>>> Lee G3SEW
>>> --- In mkars80@..., Steve Drury<g6alu@> wrote:
>>>> Lee,
>>>> Sorry I didn't read your last mail properly... relay contacts
>> perhaps
>>
>>>> although I would have thought operating the relay a few times would
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>>
>>>> "cleaned" them.
>>>> How strong is the interfering signal - do you have a general
>> coverage
>>
>>>> receiver you can receive it with?
>>>> Its certainly an interesting one!
>>>> Steve G6ALU
>>>> On 29/03/2011 20:53, g3sew wrote:
>>>>> Steve,
>>>>> Mick's radio had the same sensitivity as mine.
>>>>> Doesn't the fact that when I attached the antenna to the relay
>> side of C52 (ie just before the RF gain control), and that there was no
>> interference when I did this, that the fault probably lies between the
>> changeover relay and the antenna socket (ie somewhere in the LPF)?
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>>>>> Lee G3SEW
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>>>>>> Lee,
>>>>>> If the intermod is happening inside your radio I would go for the
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>>>>>> mixer - did Mick's radio seem any more sensitive than yours?
>>>>>> Check the soldering on each of the mixer transformer wires, if no

>> luck
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>>>>>> there try some more diodes - I can send you some if that helps.
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>>>>>>> Peter and Ken - thanks very much for your replies. It looks as
>> if the mixing is happening in the MKARS itself, and Peter's
>> calculations look very good.
>>
>>>>>>> Mick M0MMI dropped his MKARS around just now, and his is
>> completely clean. So we have narrowed it down to building errors
>> (shocking!). Further tests seem to show that if I feed the antenna in
>> at the change over relay (ie after the low pass filter) the problem
>> disappears.
>>
>>>>>>> I have resoldered the joints in the low pass filter, but with no
>> change. And resistance readings along the filter are also good.
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>>>>>>> Oddly, I find that I can almost null out the unwanted stations
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>> take it to about one eighth of a turn from max gain, the unwanted
>> signals drop right down. They come up a bit as I reduce the volume past
>> that point (anticlockwise), then they reduce again as I continue to
>> turn the gain anti-clockwise. But this may just be finding the optimum
>> imput impedance for the high pass filter immediately before the first
>> RF transistor.
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>>>>>>> When I try injecting the antenna signal at different points
>> along the low pass filter, I find that injecting at the junction of L1
>> and L2 the unwanted signal is incredibly loud (much louder than at the
>> antenna). Between L2 and L3 it is quieter than at the antenna socket,
>> while at the right hand end of L3 it is barely perceptible.
>>
>>>>>>> Lee G3SEW
>>>>>>> --- In mkars80@..., "K.Greenough"<g0wbm@>
>> wrote:
>>
>>>>>>>> Hello Peter,
>>>>>>>> That mixing process is certainly possible but when the
>>>>>>>> RF gain is turned down you'd expect the interference to
>>>>>>>> disappear. Lee also says he's heard it on another Rx
>>>>>>>> which I think has a different IF. I did wonder if signals
>>>>>>>> were being mixed elsewhere, ie the old rusty drainpipe
>>>>>>>> stories that used to abound at one time. But Lee says
>>>>>>>> that he doesn't hear it on his Icom transceiver.
>>>>>>>> I have paid particular notice to this as I have experienced
>>>>>>>> similar problems, I used to hear BBC R5 on top band and
>>>>>>>> so did another local amateur. It turned out to be the second
>>>>>>>> harmonic of the 909 KHz transmission from Moorside Edge
>>>>>>>> [about 40 miles away]. The other local worked for a big

>> comm's
>>
>>>>>>>> firm so when he reported it they listened to him and it
>> disappeared.
>>
>>>>>>>> I have a mast about half a mile from me which carries High
>> Peak
>>
>>>>>>>> radio on 106.4 MHz FM. Many FM RXs in my house hear this
>> station
>>
>>>>>>>> superimposed on all others, better quality RXs are clear. But I
>> can
>>
>>>>>>>> hear it, very distorted, at many spots on SW using older RXs,
>> the local
>>
>>>>>>>> osc' is multiplied up and beats with it. The FM signal is so
>> strong I
>>
>>>>>>>> can read it on a field strength meter and it's a nuisance when
>> signal
>>
>>>>>>>> tracing in equipment, counters read 106.4 and I read RF at all
>> sorts
>>
>>>>>>>> of strange places. It took me a few weeks after this station
>> came on air
>>
>>>>>>>> to realise what was happening. Anyway that's strayed somewhat
>> from
>>
>>>>>>>> Lee's problem, I would imagine Lee, that an ATU or BPF would
>> cure your problem.
>>
>>>>>>>> 73 Ken g8beq
>>>>>>>> [Non-text portions of this message have been removed]
>>>>>>> ------------------------------------
>>>>>>> Yahoo! Groups Links
>>>>>>> -----
>>>>>>> No virus found in this message.
>>>>>>> Checked by AVG - www.avg.com
>>>>>>> Version: 10.0.1204 / Virus
>> Database: 1498/3535 - Release Date: 03/28/11
>>
>>>>> ------------------------------------
>>>>> Yahoo! Groups Links
>>>>> -----
>>>>> No virus found in this message.
>>>>> Checked by AVG - www.avg.com

>>>>> Version: 10.0.1204 / Virus
>> Database: 1498/3537 - Release Date: 03/29/11
>>
>>> ----------
>>> Yahoo! Groups Links
>>> http://uk.groups.yahoo.com/group/mkars80/
>>>
>> required)
>>
>> uk
>>
>>> mkars80-unsubscribe@...
>>> http://uk.docs.yahoo.com/info/terms.html
>>>
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3540 - Release Date: 03/30/11
>
>

2004. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-31 15:17:37 UTC
From: g3sew
Topic: 1980 Message: 2004

Steve

I have rebuilt the LPF outside the rig using the same coils but different capacitors - and the problem is still there! So this was a red herring. The problem is presumably futher down the line. I still get this effect where I can null the unwanted signals by turning the RF gain control. This does not alter the pitch of the hetrodyne - so it seems unlikely to be a spurious oscillation (and I can't find any other indication of spurious oscillation). But it does seem odd that it should null in this way.

While outside the rig I tested the performance of the LPF and it looked good. I also tested the performance of the HPF just before Q19 (while in circuit). This also seemed fine - though the 3.5MHz response was a lower than that for 4MHz by a couple of dB.

So - I don't think I will be needing duplicates of the LPF capacitors thanks Steve (unfortunately).

I have now put the LPF back together on board, and the images are at least as bad (and they are improved slightly by the ATU - though this is pretty marginal).

You are right about the 3.725 unwanted - I think I have heard both stations that are causing the intermod (one of which is Sunrise). But I'm not sure what the other is, and the stronger birdie on 3.542 seems to be unaccompanied.

Best results so far have been to put a parallel tuned circuit in the lead which goes from the bottom end of C52 and the top of VR1. I can tune out Sunrise pretty well with this, without it having any impact on other signals.

But I would much rather find the fault!

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Lee, it can't be the inductors, can it? Which leaves the capacitors...
> do you want a new set?
>
> Steve G6ALU
>
> On 30/03/2011 20:18, g3sew wrote:
> > Steve,
> >
> > The ATU is a commercial one, and I don't have the circuit.
> >
> > Mick's MKARS was connected up exactly as mine here. I just swapped rigs. I have now found that if I bypass the LPF by connecting a wire between the ant socket and the far RH end of the LPF, the intermod is not there. So I am going to dismember the LPF.
> >

> >
> > Lee G3SEW
> >
> >
> > --- In mkars80@..., "g6alu@"<g6alu@> wrote:
> >> Lee, re the ATU it depends on what type it is, low pass "PI" -
> >> capacitor to ground each end or high pass "T", inductor to ground in
> >> the middle.
> >>
> >> Unless
> >> its a home made one then its likely to be a "T" type which is
> >> interesting as it should have at least reduced the level of signal
> >> input.
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> >> Did you use the same connector / adaptor to attach your antenna to your
> >> rig as to Mick's rig? If its in the LPF I can only think there is a
> >> problem with one of the capacitors.
> >>
> >>
> >>
> >> Regards,
> >>
> >> Steve G6ALU
> >>
> >>
> >>
> >>> ----Original Message----
> >>> From: g3sew@
> >>> Date: 30/03/2011 9:29
> >>> To:<mkars80@...>
> >>> Subj: [mkars80] Re: Weird image on my MKARS
> >>> Steve,
> >>> If I connect the antenna at the RH end of the LPF I get no intermod -
> >> so I can't blame the relay. I really think that the fault must be
> >> between the ant socket and the RH end of the LPF - ie somewhere in the
> >> LPF itself.
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> >>> I have just checked medium wave, and I don't hear Sunshine radio on
> >> 855KHz at all, but it is 60dB over S9 on 1.458MHz. Mick's MKARS just
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> >> up something in the build process :-)
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> >>> In response to Ken, the ATU doesn't make any difference unfortunately
> >> (though since a tuned RF preamp does get rid of it, I don't think we
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> >>> The next plan is to short out sections of the LPF.
> >>> Lee G3SEW

> >>> --- In mkars80@..., Steve Drury<g6alu@> wrote:
> >>>> Lee,
> >>>> Sorry I didn't read your last mail properly... relay contacts
> >> perhaps
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> >>>> although I would have thought operating the relay a few times would
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> >>>> "cleaned" them.
> >>>> How strong is the interfering signal - do you have a general
> >> coverage
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> >>>> Its certainly an interesting one!
> >>>> Steve G6ALU
> >>>> On 29/03/2011 20:53, g3sew wrote:
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> >>>>>> Check the soldering on each of the mixer transformer wires, if no
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> >>>>>> there try some more diodes - I can send you some if that helps.
> >>>>>> Steve G6ALU
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> >>>>>>> Peter and Ken - thanks very much for your replies. It looks as
> >> if the mixing is happening in the MKARS itself, and Peter's
> >> calculations look very good.
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> >>>>>>> Mick M0MMI dropped his MKARS around just now, and his is
> >> completely clean. So we have narrowed it down to building errors
> >> (shocking!). Further tests seem to show that if I feed the antenna in
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> >>>>>>> Oddly, I find that I can almost null out the unwanted stations

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> >> take it to about one eighth of a turn from max gain, the unwanted
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> >> while at the right hand end of L3 it is barely perceptible.
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> >>>>>>> Lee G3SEW
> >>>>>>> --- In mkars80@..., "K.Greenough"<g0wbm@>
> >> wrote:
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> >>>>>>>>> Hello Peter,
> >>>>>>>>> That mixing process is certainly possible but when the
> >>>>>>>>> RF gain is turned down you'd expect the interference to
> >>>>>>>>> disappear. Lee also says he's heard it on another Rx
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> >>>>>>>>> [about 40 miles away]. The other local worked for a big
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> >>>>>>>>> firm so when he reported it they listened to him and it
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> >>>>>>>>> I have a mast about half a mile from me which carries High
> >> Peak
> >>
> >>>>>>>>> radio on 106.4 MHz FM. Many FM RXs in my house hear this
> >> station
> >>
> >>>>>>>>> superimposed on all others, better quality RXs are clear. But I
> >> can
> >>
> >>>>>>>>> hear it, very distorted, at many spots on SW using older RXs,
> >> the local
> >>
> >>>>>>>>> osc' is multiplied up and beats with it. The FM signal is so
> >> strong I

> >>
> >>>>>>>> can read it on a field strength meter and it's a nuisance when
> >> signal
> >>
> >>>>>>>> tracing in equipment, counters read 106.4 and I read RF at all
> >> sorts
> >>
> >>>>>>>> of strange places. It took me a few weeks after this station
> >> came on air
> >>
> >>>>>>>> to realise what was happening. Anyway that's strayed somewhat
> >> from
> >>
> >>>>>>>> Lee's problem, I would imagine Lee, that an ATU or BPF would
> >> cure your problem.
> >>
> >>>>>>>> 73 Ken g8beq
> >>>>>>>> [Non-text portions of this message have been removed]
> >>>>>>> ------------------------------------
> >>>>>>> Yahoo! Groups Links
> >>>>>>> -----
> >>>>>>> No virus found in this message.
> >>>>>>> Checked by AVG - www.avg.com
> >>>>>>> Version: 10.0.1204 / Virus
> >> Database: 1498/3535 - Release Date: 03/28/11
> >>
> >>>>> ------------------------------------
> >>>>> Yahoo! Groups Links
> >>>>> -----
> >>>>> No virus found in this message.
> >>>>> Checked by AVG - www.avg.com
> >>>>> Version: 10.0.1204 / Virus
> >> Database: 1498/3537 - Release Date: 03/29/11
> >>
> >>> ------------------------------------
> >>> Yahoo! Groups Links
> >>> http://uk.groups.yahoo.com/group/mkars80/
> >>>
> >> required)
> >>
> >> uk
> >>
> >>> mkars80-unsubscribe@...
> >>> http://uk.docs.yahoo.com/info/terms.html
> >>>
> >
> >
> >
> > ------------------------------------
> >

> > Yahoo! Groups Links
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> >
> >
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1209 / Virus Database: 1500/3540 - Release Date: 03/30/11
> >
> >
>

2005. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-31 16:44:38 UTC
From: K.Greenough
Topic: 1980 Message: 2005

Hello Lee,
Have you checked the voltages on Q19 ? , if the
transistor is biased wrong it could cause intermod' .
73 Ken g8beq

[Non-text portions of this message have been removed]

2006. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-31 18:04:15 UTC
From: g3sew
Topic: 1980 Message: 2006

Thanks Ken

Good idea - but sadly it is just what is should be :-(

By the way - does anyone know what the diodes in series with the collectors of Q15, 19, 21 and 22 etc are for?

Lee G3SEW

--- In mkars80@....uk, "K.Greenough" <g0wbm@...> wrote:
>
> Hello Lee,
> Have you checked the voltages on Q19 ? , if the
> transistor is biased wrong it could cause intermod' .
> 73 Ken g8beq
>
>
> [Non-text portions of this message have been removed]
>

2007. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-03-31 18:15:11 UTC
From: K.Greenough
Topic: 1980 Message: 2007

Hello Lee,
Re, the diodes. If you look at the circuit of say, the RX RF amp Q19, it's collector resistor is 220 ohms. When on Tx this resistor and C91 are still connected to the balanced mixer, D12-D15 and they would shunt most of the Tx signal to ground. D9 is in series with the collector and on Rx is conducting due to the colector current but on Tx it is not biased on and so isolates R68 and C91 from the Tx signal. The other diodes serve a similar purpose.
73 Ken g8beq

[Non-text portions of this message have been removed]

2008. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-04-02 14:58:46 UTC
From: g3sew
Topic: 1980 Message: 2008

Ken,

Thanks for the explanation - though I would have thought that the result of using the diode in the example you mention (D9) would be that there was still a relatively low impedance path to ground for the negative going half of the TX signal on its way to Q20 via C97?

Lee G3SEW

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello Lee,
> Re, the diodes. If you look at the circuit of say, the RX RF amp
> Q19, it's collector resistor is 220 ohms. When on Tx this resistor
> and C91 are still connected to the balanced mixer, D12-D15 and
> they would shunt most of the Tx signal to ground. D9 is in series with
> the collector and on Rx is conducting due to the colector current
> but on Tx it is not biased on and so isolates R68 and C91 from the Tx
> signal. The other diodes serve a similar purpose.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

2009. [SUSPECTED SPAM] Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-04-02 16:28:20 UTC
From: K.Greenough
Topic: 2009 Message: 2009

Hello Lee,
Steve could give a more definate answer but I think the
signal levels are too small to bias the diodes on
[approx' 700 mV needed].
73 Ken g8beq

[Non-text portions of this message have been removed]

2010. Re: [SUSPECTED SPAM] Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-04-02 16:45:06 UTC
From: Steve Drury
Topic: 2009 Message: 2010

Yes, from the DBM there is only around -16dBm or about 50mV RMS into a
50R load.

Steve G6ALU

On 02/04/2011 17:28, K.Greenough wrote:
> Hello Lee,
> Steve could give a more definate answer but I think the
> signal levels are too small to bias the diodes on
> [approx' 700 mV needed].
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3546 - Release Date: 04/02/11
>
>

2011. [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-04-02 17:48:42 UTC
From: g3sew
Topic: 2009 Message: 2011

Thanks Steve and Ken

All understood now!

By the way, I have just managed to hear Sunrise Radio on Mick's MKARS on 3.542MHz on my antenna (but nothing heard on 3.726). It is weak, but definitely there.

So why is my spurious so much louder than Mick's?

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Yes, from the DBM there is only around -16dBm or about 50mV RMS into a
> 50R load.
>
> Steve G6ALU
>
> On 02/04/2011 17:28, K.Greenough wrote:
> > Hello Lee,
> > Steve could give a more definate answer but I think the
> > signal levels are too small to bias the diodes on
> > [approx' 700 mV needed].
> > 73 Ken g8beq
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ------------------------------------
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> >
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> > Version: 10.0.1209 / Virus Database: 1500/3546 - Release Date: 04/02/11
> >
> >
>

2012. frequency drift

Yahoo group: mkars80
Date: 2011-04-03 08:55:11 UTC
From: Pascal
Topic: 2012 Message: 2012

Hi Steve,
The frequency moves suddenly when transmiting for less than one minute - This morning, I switch on the Mkars half an hour before the net, it looks stabalized in receiving, and I could adjust with the fine Tune to reduce the "-" , but during my last transmission with Lee G3SEW, I suddenly moved down 3 kc and lost the contact (same as last week). What can I do ? Thanks - (doing fine tune during transmitting is not easy)

2013. MKARS80 net

Yahoo group: mkars80
Date: 2011-04-03 09:34:45 UTC
From: woodiescbj
Topic: 375 Message: 2013

Good morning, I could hear the net this morning but only r2 s2 on the banks of the river Rhein in Bonn, maybe I will have better luck next week, 72/3 de DD5CF Colin

2014. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-03 10:02:50 UTC
From: g3sew
Topic: 2012 Message: 2014

Pascal,

When you transmit, does the power supply voltage remain stable? If not, that could be the problem.

Good to hear everyone on this morning by the way. And thanks to Colin for the report from Bonn!

Lee G3SEW

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Hi Steve,
> The frequency moves suddenly when transmiting for less than one minute - This morning, I switch on the Mkars half an hour before the net, it looks stabalized in receiving, and I could adjust with the fine Tune to reduce the "-" , but during my last transmission with Lee G3SEW, I suddenly moved down 3 kc and lost the contact (same as last week). What can I do ? Thanks - (doing fine tune during transmitting is not easy)
>

2015. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-03 14:03:17 UTC
From: Pascal
Topic: 2012 Message: 2015

Hi Lee
Yes voltage is stable, between 13.5 and 13.6 V - Frequency seems to stabilize after on hour, which is a long time...
The net hour is late in the morning, propagation between UK and Brittany is going down at this time. See you next week - 73

--- In mkars80@..., "g3sew" <g3sew@...> wrote:
>
> Pascal,
>
> When you transmit, does the power supply voltage remain stable? If not, that could be the problem.
>
> Good to hear everyone on this morning by the way. And thanks to Colin for the report from Bonn!
>
>
> Lee G3SEW
>
> --- In mkars80@..., "Pascal" <pascal@> wrote:
> >
> > Hi Steve,
> > The frequency moves suddenly when transmiting for less than one minute - This morning, I switch on the Mkars half an hour before the net, it looks stabalized in receiving, and I could adjust with the fine Tune to reduce the "-" , but during my last transmission with Lee G3SEW, I suddenly moved down 3 kc and lost the contact (same as last week). What can I do ? Thanks - (doing fine tune during transmitting is not easy)
> >
>

2016. Re: [mkars80] Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-03 14:26:14 UTC
From: G4DFV
Topic: 2012 Message: 2016

Perhaps a more suitable time for the MKARS net would be in the evening when propagation may be better?

Duncan G4DFV

[Non-text portions of this message have been removed]

2017. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-04 07:48:46 UTC
From: g3sew
Topic: 2012 Message: 2017

Pascal,

Is this a new fault, or has it always been like this? And does it properly stabilise on receive? With mine, as soon as I have turned on the power it will stay exactly on frequecy for hours on end.

Duncan/Pascal,

I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?

Lee G3SEW

>Perhaps a more suitable time for the MKARS net would be in the evening when propagation may be better?

>Duncan G4DFV
--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Hi Lee
> Yes voltage is stable, between 13.5 and 13.6 V - Frequency seems to stabilize after on hour, which is a long time...
> The net hour is late in the morning, propagation between UK and Brittany is going down at this time. See you next week - 73
>
> --- In mkars80@yahoogroups.co.uk, "g3sew" <g3sew@> wrote:
> >
> > Pascal,
> >
> > When you transmit, does the power supply voltage remain stable? If not, that could be the problem.
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> > Good to hear everyone on this morning by the way. And thanks to Colin for the report from Bonn!
> >
> >
> > Lee G3SEW
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> > --- In mkars80@..., "Pascal" <pascal@> wrote:
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> > > Hi Steve,
> > > The frequency moves suddenly when transmiting for less than one minute - This morning, I switch on the Mkars half an hour before the net, it looks stabalized in receiving, and I could adjust with the fine Tune to reduce the "-" , but during my last transmission with Lee G3SEW, I suddenly moved down 3 kc and lost the contact (same as last week). What can I do ? Thanks - (doing fine tune during transmitting is not easy)

> > >
> >
>

2018. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-04 19:10:19 UTC
From: Pascal
Topic: 2012 Message: 2018

Lee,

This fault is from the beginning - I suppose the drift of the VFO is too high to allow the varicap to correct it a long time, so the system switch off the right frequency suddenly. I would probably have to change a few components around the tuning capacitor , but which ones ? and by which others ? I don't know.

About the net hour, yes evening should be better - we can try on day in the week, before to register a new schedule.
Can we try on Wednesday, but at 18 GMT, as before, I am at the office ?

73
--- In mkars80@..., "g3sew" <g3sew@...> wrote:
>
> Pascal,
>
> Is this a new fault, or has it always been like this? And does it properly stabilise on receive? With mine, as soon as I have turned on the power it will stay exactly on frequecy for hours on end.
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> Duncan/Pascal,
>
> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
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> Lee G3SEW
>
> >Perhaps a more suitable time for the MKARS net would be in the evening when propagation may be better?
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> >Duncan G4DFV
> --- In mkars80@..., "Pascal" <pascal@> wrote:
> >
> > Hi Lee
> > Yes voltage is stable, between 13.5 and 13.6 V - Frequency seems to stabilize after on hour, which is a long time...
> > The net hour is late in the morning, propagation between UK and Brittany is going down at this time. See you next week - 73
> >
> > --- In mkars80@..., "g3sew" <g3sew@> wrote:
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> > > Pascal,
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> > > When you transmit, does the power supply voltage remain stable? If not, that could be the problem.
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> > > Good to hear everyone on this morning by the way. And thanks to Colin for the report from Bonn!
> > >
> > >
> > > Lee G3SEW
> > >
> > > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > > >
> > > > Hi Steve,
> > > > The frequency moves suddenly when transmiting for less than one minute - This morning, I switch on the Mkars half an hour before the net, it looks stabalized in receiving, and I could adjust with the fine Tune to reduce the "-" , but during my last transmission with Lee G3SEW, I suddenly moved down 3 kc and lost the contact (same as last week). What can I do ? Thanks - (doing fine tune during transmitting is not easy)
> > > >
> > >
> >
>

2019. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-04 21:03:17 UTC
From: sa3azk
Topic: 2012 Message: 2019

Hi Pascal

Had about the same problem with my mkars 80,
It suddenly snapped out of lock.
I cured the behaviour on my kit by replacing R40 with a 8k2 resistor, that way C50 is "filled" a little faster by the "huff n puff" (i think).

Anyway, it helped on my kit, and its an easy thing to try.

73´s

SA3AZK Mike

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Lee,
>
> This fault is from the beginning - I suppose the drift of the VFO is too high to allow the varicap to correct it a long time, so the system switch off the right frequency suddenly. I would probably have to change a few components around the tuning capacitor , but which ones ? and by which others ? I don't know.
>
> About the net hour, yes evening should be better - we can try on day in the week, before to register a new schedule.
> Can we try on Wednesday, but at 18 GMT, as before, I am at the office ?
>
> 73
> --- In mkars80@..., "g3sew" <g3sew@> wrote:
> >
> > Pascal,
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> > I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
> >
> > Lee G3SEW
> >
> > >Perhaps a more suitable time for the MKARS net would be in the evening when propagation may be better?
> >
> > >Duncan G4DFV

> > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > >
> > > Hi Lee
> > > Yes voltage is stable, between 13.5 and 13.6 V - Frequency seems to stabilize after on hour, which is a long time...
> > > The net hour is late in the morning, propagation between UK and Brittany is going down at this time. See you next week - 73
> > >
> > > --- In mkars80@..., "g3sew" <g3sew@> wrote:
> > > >
> > > > Pascal,
> > > >
> > > > When you transmit, does the power supply voltage remain stable? If not, that could be the problem.
> > > >
> > > > Good to hear everyone on this morning by the way. And thanks to Colin for the report from Bonn!
> > > >
> > > >
> > > > Lee G3SEW
> > > >
> > > > --- In mkars80@yahoogroups.co.uk, "Pascal" <pascal@> wrote:
> > > > >
> > > > > Hi Steve,
> > > > > The frequency moves suddenly when transmiting for less than one minute - This morning, I switch on the Mkars half an hour before the net, it looks stabalized in receiving, and I could adjust with the fine Tune to reduce the "-" , but during my last transmission with Lee G3SEW, I suddenly moved down 3 kc and lost the contact (same as last week). What can I do ? Thanks - (doing fine tune during transmitting is not easy)
> > > > >
> > > >
> > >
> >
>

2020. Re: [mkars80] Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-04 21:10:07 UTC
From: Steve Drury
Topic: 2012 Message: 2020

Pascal,

Does the display normally show a "+" without any bars or does it always
show bars as well, for instance " --+ " or " +-- " ?

The easiest thing would be to make you a small pack of all the
capacitors in the VFO but first please confirm that the VFO coil L5 is
quite tightly wound and is it fixed to the PCB in some way?

Regards,
Steve G6ALU

On 04/04/2011 20:10, Pascal wrote:
> Lee,
>
> This fault is from the beginning - I suppose the drift of the VFO is too high to allow the varicap to correct it a long time, so the system switch off the right frequency suddenly. I would probably have to change a few components around the tuning capacitor , but which ones ? and by which others ? I don't know.
>
> About the net hour, yes evening should be better - we can try on day in the week, before to register a new schedule.
> Can we try on Wednesday, but at 18 GMT, as before, I am at the office ?
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> 73
> --- In mkars80@..., "g3sew"<g3sew@...> wrote:
>> Pascal,
>>
>> Is this a new fault, or has it always been like this? And does it properly stabilise on receive? With mine, as soon as I have turned on the power it will stay exactly on frequecy for hours on end.
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>> Duncan/Pascal,
>>
>> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
>>
>> Lee G3SEW
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>>> Perhaps a more suitable time for the MKARS net would be in the evening when propagation may be better?
>>> Duncan G4DFV
>> --- In mkars80@..., "Pascal"<pascal@> wrote:
>>> Hi Lee
>>> Yes voltage is stable, between 13.5 and 13.6 V - Frequency seems to stabilize after on hour, which is a long time...

>>> The net hour is late in the morning, propagation between UK and Brittany is going down at this time. See you next week - 73
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>>> --- In mkars80@..., "g3sew"<g3sew@> wrote:
>>>> Pascal,
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>>>> When you transmit, does the power supply voltage remain stable? If not, that could be the problem.
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>>>> Good to hear everyone on this morning by the way. And thanks to Colin for the report from Bonn!
>>>>
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>>>> Lee G3SEW
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>>>> --- In mkars80@..., "Pascal"<pascal@> wrote:
>>>>> Hi Steve,
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>>>>>
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> ------------------------------------
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3549 - Release Date: 04/04/11
>
>

2021. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-04 23:20:36 UTC
From: Jonathan point
Topic: 2012 Message: 2021

Pascal,

> First, make sure that you have good solder joints around the VFO area.
> Make sure that the VFO toroid is wound tightly with no loose turns.
> Secure the VFO toroid with a little dob of silicone sealant under it to stop it moving.
> Make sure that the variable is solid and cannot move.
> Ensure that the tuning shaft for the variable isn't fouling on the case - a little bit of friction here can cause strange shifts in frequency, even the relay vibration can cause 'creep'.

<< I assume that you have everything mounted solidly in the case. >>

My MK' had a bad drift to it when I built a small linear into it, but that was simply due to an increase in temperature caused by the heatsink plate that was close to the VFO. I removed the linear anyway as it was drawing too much power for my 7ah battery!

If you leave it switched on (but not transmitting), how is the drift over time? In my experience, I always let it drift for a few minutes before trying to tune, but after 3-5 minutes, it stays locked.

I have had some issues when using it in cold (<10C) weather when portable, but it usually settles after a couple of retunes.

>> If the sudden drift is still apparent after 5 minutes on receive, I'd suspect the variable capacitor. If you wobble the shaft lightly (not turn), does the + & - indicator go crazy? My 40m QRP DSB TRX suffered from this - the only solution was a new cap =[

Keep us posted =]

Regards,

Jon Point
VK2JDP

--- In mkars80@..., "g3sew" <g3sew@...> wrote:
>
> Pascal,
>
> Is this a new fault, or has it always been like this? And does it properly stabilise on receive? With mine, as soon as I have turned on the power it will stay exactly on frequecy for hours on end.
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> Duncan/Pascal,
>
> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
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> Lee G3SEW
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> >Perhaps a more suitable time for the MKARS net would be in the evening when propagation may be better?
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> >Duncan G4DFV
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> > Hi Lee
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> > > --- In mkars80@..., "Pascal" <pascal@> wrote:
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> > >
> >
>

2022. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-05 08:27:36 UTC
From: g3sew
Topic: 2012 Message: 2022

Pascal,

Happy to try 17.00GMT Wednesday evening on 3.69 - OK?

But will your VFO be stable enough to have a QSO?

I would have thought that it was more likely that the Huff & Puff stabilisation was not working properly. Steve's question about the "---" signs in the display should help to clarify that. Does the "U" in the display ever change to a "+" ?

Lee G3SEW

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Lee,
>
> This fault is from the beginning - I suppose the drift of the VFO is too high to allow the varicap to correct it a long time, so the system switch off the right frequency suddenly. I would probably have to change a few components around the tuning capacitor , but which ones ? and by which others ? I don't know.
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> > >Perhaps a more suitable time for the MKARS net would be in the evening when propagation may be better?
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> > --- In mkars80@..., "Pascal" <pascal@> wrote:

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> > > Hi Lee
> > > Yes voltage is stable, between 13.5 and 13.6 V - Frequency seems to stabilize after on hour, which is a long time...
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> > > > Pascal,
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> > > > Lee G3SEW
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> >
>

2023. Re: [mkars80] Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-04-05 09:17:44 UTC
From: K.Greenough
Topic: 1980 Message: 2023

Hello Lee,
I notice from several of your mails on your interference problem that you have concentrated on the low pass filter, but of course a low pass filter is not going to help remove medium wave signals. You need either a band pass filter or a high pass [cut off say, 2 MHz] in front of the existing filter to form a band pass or a notch filter tuned to the medium wave station. It's worth noting that with a decent length aerial many medium wave stations can produce Volts of signal.There is a single stage HPF in front of the RF amp', Have you checked L8 ? You could try a lower value inductance, obviously too low will attenuate the 80m signal but the medium wave signal should fall off far more rapidly.
73 Ken g8beq

[Non-text portions of this message have been removed]

2024. Re: [mkars80] Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-05 09:44:16 UTC
From: G4DFV
Topic: 2012 Message: 2024

I don't know about 80m conditions at others QTH's,
but in the morning at my location most signals on the band are incredibly
quiet, many right down in the noise.
In late afternoon and evening the propagation gets much better
despite any noise.
I reckon it wouldn't be a bad thing to give it a go and see what happens.
I would suggest an hour later, 7.00pm (18.00 GMT)?

Duncan G4DFV

Duncan/Pascal,

I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?

Lee G3SEW

[Non-text portions of this message have been removed]

2025. Re: Weird image on my MKARS

Yahoo group: mkars80
Date: 2011-04-05 09:48:38 UTC
From: g3sew
Topic: 1980 Message: 2025

Ken,

I was suspicious of the LPF because it seemed that if I introduced the antenna after the LPF, the problem was reduced. I was not thinking that the LPF should have removed the LF stations, but that there might be some non-linearity there, with possibility for intermod. But this was all a red herring, as when I recreated the LPF outside the rig, I got the same symptoms. I have now checked the frequency response of both the LPF and the HPF, and they are both as they should be.

I am now tracing a signal from a sig gen from the ant socket through the receive side of the rig, and this seems to show major anomalies.

I will post again when I have done a few more measurements.

Lee G3SEW

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello Lee,
> I notice from several of your mails on your interference
> problem that you have concentrated on the low pass
> filter, but of course a low pass filter is not going to help
> remove medium wave signals. You need either a band
> pass filter or a high pass [cut off say, 2 MHz] in front of the
> existing filter to form a band pass or a notch filter tuned to
> the medium wave station. It's worth noting that with a decent
> length aerial many medium wave stations can produce Volts
> of signal.There is a single stage HPF in front of the RF amp',
> Have you checked L8 ? You could try a lower value inductance,
> obviously too low will attenuate the 80m signal but the medium
> wave signal should fall off far more rapidly.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

2026. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-05 09:53:25 UTC
From: g3sew
Topic: 2012 Message: 2026

Duncan,

I think you are probably right about the time. 18.00 GMT would be better for long distance propagation (though it might be more noisy). What do you think Pascal?

lee G3SEW

--- In mkars80@..., "G4DFV" <g4dfv.electron1@...> wrote:
>
> I don't know about 80m conditions at others QTH's,
> but in the morning at my location most signals on the band are incredibly
> quiet, many right down in the noise.
> In late afternoon and evening the propagation gets much better
> despite any noise.
> I reckon it wouldn't be a bad thing to give it a go and see what happens.
> I would suggest an hour later, 7.00pm (18.00 GMT)?
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> Duncan G4DFV
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>
> Duncan/Pascal,
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> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
>
> Lee G3SEW
>
>
>
>
> [Non-text portions of this message have been removed]
>

2027. Surprising it works at all

Yahoo group: mkars80
Date: 2011-04-05 18:59:27 UTC
From: g3sew
Topic: 2027 Message: 2027

Hi,

I am still trying to track down why I get images and intermod on my MKARS. Tracing a signal through from the antenna socket, my MKARS has massive amounts of VFO signal in the main signal path. Q19 has 400mV p-p on its collector at the VFO frequency. This comes from T4 (when I remove C81 it stops). On pin 2 and 6 of T4 I have 500mV p-p (on Mick's this shows no VFO signal at all). The other pins of T4 are similar to Mick's, but pins 3 and 5 have around 2V p-p with some distortion, whereas Mick's has 1.5V p-p clean.

Continuity on T4 looks OK.

I am surprised that my MKARS works at all, particularly as the TX seems to be giving a clean output.

Any suggestions gratefully received,

Lee G3SEW

2028. Re: Surprising it works at all

Yahoo group: mkars80
Date: 2011-04-05 19:32:35 UTC
From: panzerbeeb
Topic: 2027 Message: 2028

Lee, when you say the waveform has some distortion, is it basically unsymetrical from positive to negative half cycles?
If so it might be worth checking the mixer diodes, I had these sort of symptoms, together with a fairly deaf rx, turned out to be a mixer diode that thought it was a 430 ohm resistor. Had to replace all 4 diodes in the mixer to get a decent vfo signal null.

Mike G8EEY

--- In mkars80@..., "g3sew" <g3sew@...> wrote:
>
> Hi,
>
> I am still trying to track down why I get images and intermod on my MKARS. Tracing a signal through from the antenna socket, my MKARS has massive amounts of VFO signal in the main signal path. Q19 has 400mV p-p on its collector at the VFO frequency. This comes from T4 (when I remove C81 it stops). On pin 2 and 6 of T4 I have 500mV p-p (on Mick's this shows no VFO signal at all). The other pins of T4 are similar to Mick's, but pins 3 and 5 have around 2V p-p with some distortion, whereas Mick's has 1.5V p-p clean.
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> Continuity on T4 looks OK.
>
> I am surprised that my MKARS works at all, particularly as the TX seems to be giving a clean output.
>
> Any suggestions gratefully received,
>
>
> Lee G3SEW
>

2029. Re: [mkars80] Re: Surprising it works at all

Yahoo group: mkars80
Date: 2011-04-05 19:59:09 UTC
From: Steve Drury
Topic: 2027 Message: 2029

Yes I would go for the same although I've no idea how we ended up with duff diodes! If that doesn't cure it rewind the mixer transformers, if you want to be sure all parts are OK I will willingly send diodes and ferrites.

Before you do any of that though its worth downloading the PCB plot from the files section of the group and check there are no unintended connections around the mixer transformer - try this link http://uk.groups.yahoo.com/group/mkars80/files/MKARS 80.pdf .

Steve G6ALU

On 05/04/2011 20:32, panzerbeeb wrote:
> Lee, when you say the waveform has some distortion, is it basically unsymetrical from positive to negative half cycles?
> If so it might be worth checking the mixer diodes, I had these sort of symptoms, together with a fairly deaf rx, turned out to be a mixer diode that thought it was a 430 ohm resistor. Had to replace all 4 diodes in the mixer to get a decent vfo signal null.
>
> Mike G8EEY
>
> --- In mkars80@..., "g3sew"<g3sew@...> wrote:
>> Hi,
>>
>> I am still trying to track down why I get images and intermod on my MKARS. Tracing a signal through from the antenna socket, my MKARS has massive amounts of VFO signal in the main signal path. Q19 has 400mV p-p on its collector at the VFO frequency. This comes from T4 (when I remove C81 it stops). On pin 2 and 6 of T4 I have 500mV p-p (on Mick's this shows no VFO signal at all). The other pins of T4 are similar to Mick's, but pins 3 and 5 have around 2V p-p with some distortion, whereas Mick's has 1.5V p-p clean.
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>> Continuity on T4 looks OK.
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>> I am surprised that my MKARS works at all, particularly as the TX seems to be giving a clean output.
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>> Any suggestions gratefully received,
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>>
>> Lee G3SEW
>>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3552 - Release Date: 04/05/11
>
>

2030. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-05 20:13:22 UTC
From: Pascal
Topic: 2012 Message: 2030

Hi
I am ok for 18 GMT, 19 local french hour tomorrow, Wednesday
Hope to hear you tomorrow around 3690
Pascal

--- In mkars80@..., "g3sew" <g3sew@...> wrote:
>
> Duncan,
>
> I think you are probably right about the time. 18.00 GMT would be better for long distance propagation (though it might be more noisy). What do you think Pascal?
>
>
> lee G3SEW
>
>
> --- In mkars80@..., "G4DFV" <g4dfv.electron1@> wrote:
> >
> > I don't know about 80m conditions at others QTH's,
> > but in the morning at my location most signals on the band are incredibly
> > quiet, many right down in the noise.
> > In late afternoon and evening the propagation gets much better
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> > I would suggest an hour later, 7.00pm (18.00 GMT)?
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> > Duncan G4DFV
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> >
> > Duncan/Pascal,
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> > I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
> >
> > Lee G3SEW
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

2031. Re: Ebay

Yahoo group: mkars80
Date: 2011-04-06 10:39:28 UTC
From: John Tyler
Topic: 1942 Message: 2031

I see that this item did not sell and is now re advertised at, what I would consider, a more reasonable starting price.

It can be found here
<http://cgi.ebay.co.uk/ws/eBayISAPI.dll?ViewItem&item=170623564317>

John G4GCL

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> There is a built MKARS80 and a CW adapter on ebay, see item number:
>
> 170617633018
>
> Steve G6ALU
>

[Non-text portions of this message have been removed]

2032. Re: Surprising it works at all

Yahoo group: mkars80
Date: 2011-04-06 10:45:21 UTC
From: g3sew
Topic: 2027 Message: 2032

Steve,

There appear to be no bridges on the PCB - and Yes - I would very much appreciate a new set of diodes and ferrites. Thank you very much.

In answer to Mike, the non linearity appears to be caused by Q13 having too great a voltage swing in its collector. I get 2V p-p at that point, whereas on Mick's it is 1.5V p-p. My waveform at that point has a smaller swing from zero to negative than from zero to positive, and that is repeated when I take readings on T4 - though pin 1 of T4 shows the distorted part at the top rather than the bottom, due, I imagine, to the inversion caused by the inductor.

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Yes I would go for the same although I've no idea how we ended up with
> duff diodes! If that doesn't cure it rewind the mixer transformers, if
> you want to be sure all parts are OK I will willingly send diodes and
> ferrites.
>
> Before you do any of that though its worth downloading the PCB plot from
> the files section of the group and check there are no unintended
> connections around the mixer transformer - try this link
> http://uk.groups.yahoo.com/group/mkars80/files/MKARS 80.pdf .
>
> Steve G6ALU
>
> On 05/04/2011 20:32, panzerbeeb wrote:
> > Lee, when you say the waveform has some distortion, is it basically unsymetrical from positive to negative half cycles?
> > If so it might be worth checking the mixer diodes, I had these sort of symptoms, together with a fairly deaf rx, turned out to be a mixer diode that thought it was a 430 ohm resistor. Had to replace all 4 diodes in the mixer to get a decent vfo signal null.
> >
> > Mike G8EEY
> >
> > --- In mkars80@..., "g3sew"<g3sew@> wrote:
> >> Hi,
> >>
> >> I am still trying to track down why I get images and intermod on my MKARS. Tracing a signal through from the antenna socket, my MKARS has massive amounts of VFO signal in the main signal path. Q19 has 400mV p-p on its collector at the VFO frequency. This comes from T4 (when I remove C81 it stops). On pin 2 and 6 of T4 I have 500mV p-p (on Mick's this shows no VFO signal at all). The other pins of T4 are similar to Mick's, but pins 3 and 5 have around 2V p-p with some distortion, whereas Mick's has 1.5V p-p clean.

> >>
> >> Continuity on T4 looks OK.
> >>
> >> I am surprised that my MKARS works at all, particularly as the TX seems to be giving a clean output.
> >>
> >> Any suggestions gratefully received,
> >>
> >>
> >> Lee G3SEW
> >>
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1209 / Virus Database: 1500/3552 - Release Date: 04/05/11
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>

2033. Re: Surprising it works at all

Yahoo group: mkars80
Date: 2011-04-06 12:31:06 UTC
From: panzerbeeb
Topic: 2027 Message: 2033

Lee,

That is exactly the effect you get if there is a duff diode in the bridge, change all four diodes first- it's the easier than rewinding T4, the mixer balance depends on how well the diodes are matched so four from the same batch is best. Make sure they are all in the right way HI.

Mike G8EEY

--- In mkars80@..., "g3sew" <g3sew@...> wrote:
>
> Steve,
>
> There appear to be no bridges on the PCB - and Yes - I would very much appreciate a new set of diodes and ferrites. Thank you very much.
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> In answer to Mike, the non linearity appears to be caused by Q13 having too great a voltage swing in its collector. I get 2V p-p at that point, whereas on Mick's it is 1.5V p-p. My waveform at that point has a smaller swing from zero to negative than from zero to positive, and that is repeated when I take readings on T4 - though pin 1 of T4 shows the distorted part at the top rather than the bottom, due, I imagine, to the inversion caused by the inductor.
>
>
> Lee G3SEW
>
>
> --- In mkars80@..., Steve Drury <g6alu@> wrote:
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> > Yes I would go for the same although I've no idea how we ended up with
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> > ferrites.
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> > Before you do any of that though its worth downloading the PCB plot from
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> > connections around the mixer transformer - try this link
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> > On 05/04/2011 20:32, panzerbeeb wrote:
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> > > If so it might be worth checking the mixer diodes, I had these sort of symptoms, together with a fairly deaf rx, turned out to be a mixer diode that thought it was a 430

ohm resistor. Had to replace all 4 diodes in the mixer to get a decent vfo signal null.
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> > >>
> > >> Continuity on T4 looks OK.
> > >>
> > >> I am surprised that my MKARS works at all, particularly as the TX seems to be giving a clean output.
> > >>
> > >> Any suggestions gratefully received,
> > >>
> > >>
> > >> Lee G3SEW
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2034. Re: Surprising it works at all

Yahoo group: mkars80
Date: 2011-04-06 15:35:54 UTC
From: g3sew
Topic: 2027 Message: 2034

Unfortunately it looks as if the diodes are OK.

I have taken out T4 and T6, and they all look fine, with no shorts, and each pair of leads registering around 48uH.

With T4 and T6 out of circuit, I also checked the 4 mixer diodes, and these all read correctly in both directions, and are all in the right way around.

Putting T4 and T6 back in, I still have the images, and the 400mV of VFO on the collector of Q19. This VFO signal also appears at the base of Q20 at 500mV p-p on both TX and RX.

Looking at the circuit, I cannot see what else could give a misbalance in the mixer and cause the VFO to appear at pin 2 of T4!

Now very puzzled.

Lee G3SEW

--- In mkars80@yahoogroups.co.uk, "panzerbeeb" <mike_mobbs@...> wrote:
>
> Lee,
>
> That is exactly the effect you get if there is a duff diode in the bridge, change all four diodes first- it's the easier than rewinding T4, the mixer balance depends on how well the diodes are matched so four from the same batch is best. Make sure they are all in the right way HI.
>
> Mike G8EEY
>
> --- In mkars80@..., "g3sew" <g3sew@> wrote:
> >
> > Steve,
> >
> > There appear to be no bridges on the PCB - and Yes - I would very much appreciate a new set of diodes and ferrites. Thank you very much.
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> > In answer to Mike, the non linearity appears to be caused by Q13 having too great a voltage swing in its collector. I get 2V p-p at that point, whereas on Mick's it is 1.5V p-p. My waveform at that point has a smaller swing from zero to negative than from zero to positive, and that is repeated when I take readings on T4 - though pin 1 of T4 shows the distorted part at the top rather than the bottom, due, I imagine, to the inversion caused by the inductor.
> >
> >
> > Lee G3SEW
> >
> >

> > --- In mkars80@yahoogroups.co.uk, Steve Drury <g6alu@> wrote:
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> > > Yes I would go for the same although I've no idea how we ended up with
> > > duff diodes! If that doesn't cure it rewind the mixer transformers, if
> > > you want to be sure all parts are OK I will willingly send diodes and
> > > ferrites.
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> > > Before you do any of that though its worth downloading the PCB plot from
> > > the files section of the group and check there are no unintended
> > > connections around the mixer transformer - try this link
> > > http://uk.groups.yahoo.com/group/mkars80/files/MKARS 80.pdf .
> > >
> > > Steve G6ALU
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> > > On 05/04/2011 20:32, panzerbeeb wrote:
> > > > Lee, when you say the waveform has some distortion, is it basically unsymetrical from positive to negative half cycles?
> > > > If so it might be worth checking the mixer diodes, I had these sort of symptoms, together with a fairly deaf rx, turned out to be a mixer diode that thought it was a 430 ohm resistor. Had to replace all 4 diodes in the mixer to get a decent vfo signal null.
> > > >
> > > > Mike G8EEY
> > > >
> > > > --- In mkars80@....uk, "g3sew"<g3sew@> wrote:
> > > >> Hi,
> > > >>
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> > > >>
> > > >> Continuity on T4 looks OK.
> > > >>
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> > > >> Any suggestions gratefully received,
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> > > >> Lee G3SEW
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>

2035. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-06 17:09:19 UTC
From: Pascal
Topic: 2012 Message: 2035

Unfortunatly, at 18GMT today, nothing heard, propagation was not there
I will try later, 19 GMT

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Hi
> I am ok for 18 GMT, 19 local french hour tomorrow, Wednesday
> Hope to hear you tomorrow around 3690
> Pascal
>
> --- In mkars80@yahoogroups.co.uk, "g3sew" <g3sew@> wrote:
> >
> > Duncan,
> >
> > I think you are probably right about the time. 18.00 GMT would be better for long distance propagation (though it might be more noisy). What do you think Pascal?
> >
> >
> > lee G3SEW
> >
> >
> > --- In mkars80@..., "G4DFV" <g4dfv.electron1@> wrote:
> > >
> > > I don't know about 80m conditions at others QTH's,
> > > but in the morning at my location most signals on the band are incredibly
> > > quiet, many right down in the noise.
> > > In late afternoon and evening the propagation gets much better
> > > despite any noise.
> > > I reckon it wouldn't be a bad thing to give it a go and see what happens.
> > > I would suggest an hour later, 7.00pm (18.00 GMT)?
> > >
> > > Duncan G4DFV
> > >
> > >
> > > Duncan/Pascal,
> > >
> > > I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
> > >
> > > Lee G3SEW
> > >
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]

> > >
> >
>

2037. Re: Surprising it works at all - Fixed!

Yahoo group: mkars80
Date: 2011-04-07 15:21:02 UTC
From: g3sew
Topic: 2027 Message: 2037

Fixed it at last!

It turned out to be a broken track in the mixer between L6 and one of the diodes. All the diodes remained connected, so they passed the tests, and T4 and T6 passed their tests.

Anyway - it is great to have it working to full spec with no images at all - no more Sunrise Radio :-) so, many thanks to everyone who helped with suggestions, and apologies for clogging up the list with my woes!

Lee G3SEW

>OK I will get some posted - did you rewind the transformers just in
>case there was a short or similar?

>I even scoped my prototype and can confirm there was no VFO waveform
>on Q19, I need to look at the PCB track to see if an inter-track >short could cause it but it seems unlikely.

Regards,

Steve G6ALU
--- In mkars80@..., "panzerbeeb" <mike_mobbs@...> wrote:
>
> Lee,
>
> That is exactly the effect you get if there is a duff diode in the bridge, change all four diodes first- it's the easier than rewinding T4, the mixer balance depends on how well the diodes are matched so four from the same batch is best. Make sure they are all in the right way HI.
>
> Mike G8EEY
>
> --- In mkars80@..., "g3sew" <g3sew@> wrote:
> >
> > Steve,
> >
> > There appear to be no bridges on the PCB - and Yes - I would very much appreciate a new set of diodes and ferrites. Thank you very much.
> >
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> > Lee G3SEW
> >
> >
> > --- In mkars80@yahoogroups.co.uk, Steve Drury <g6alu@> wrote:
> > >
> > > Yes I would go for the same although I've no idea how we ended up with
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> > > Before you do any of that though its worth downloading the PCB plot from
> > > the files section of the group and check there are no unintended
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> > > http://uk.groups.yahoo.com/group/mkars80/files/MKARS 80.pdf .
> > >
> > > Steve G6ALU
> > >
> > > On 05/04/2011 20:32, panzerbeeb wrote:
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> > > > If so it might be worth checking the mixer diodes, I had these sort of symptoms, together with a fairly deaf rx, turned out to be a mixer diode that thought it was a 430 ohm resistor. Had to replace all 4 diodes in the mixer to get a decent vfo signal null.
> > > >
> > > > Mike G8EEY
> > > >
> > > > --- In mkars80@yahoogroups.co.uk, "g3sew"<g3sew@> wrote:
> > > >> Hi,
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> > > >>
> > > >> Continuity on T4 looks OK.
> > > >>
> > > >> I am surprised that my MKARS works at all, particularly as the TX seems to be giving a clean output.
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2038. Re: [mkars80] Re: Surprising it works at all - Fixed!

Yahoo group: mkars80
Date: 2011-04-07 18:24:38 UTC
From: Steve Drury
Topic: 2027 Message: 2038

Lee,

Congratulations on finding it, I'm glad its working OK now.

I have to ask this.... was it our problem or yours? The PCBs should be
bare board tested but....

Regards,
Steve G6ALU

On 07/04/2011 16:21, g3sew wrote:
> Fixed it at last!
>
> It turned out to be a broken track in the mixer between L6 and one of the diodes. All the diodes remained connected, so they passed the tests, and T4 and T6 passed their tests.
>
> Anyway - it is great to have it working to full spec with no images at all - no more Sunrise Radio :-) so, many thanks to everyone who helped with suggestions, and apologies for clogging up the list with my woes!
>
>
> Lee G3SEW
>
>
>
>> OK I will get some posted - did you rewind the transformers just in
>> case there was a short or similar?
>> I even scoped my prototype and can confirm there was no VFO waveform
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> Regards,
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> Steve G6ALU
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>>> Steve,
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>>> There appear to be no bridges on the PCB - and Yes - I would very much appreciate a new set of diodes and ferrites. Thank you very much.
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>>> In answer to Mike, the non linearity appears to be caused by Q13 having too great a voltage swing in its collector. I get 2V p-p at that point, whereas on Mick's it is 1.5V p-p. My waveform at that point has a smaller swing from zero to negative than from zero to positive, and that is repeated when I take readings on T4 - though pin 1 of T4 shows the distorted part at the top rather than the bottom, due, I imagine, to the inversion caused by the inductor.
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>>>
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2039. Re: Surprising it works at all - Fixed!

Yahoo group: mkars80
Date: 2011-04-07 19:52:31 UTC
From: g3sew
Topic: 2027 Message: 2039

Bound to be my problem Steve. I applied quite a bit of heat to the transformer pads when the rig failed originally. This burned off the enamel on the offending lead, but the heat must have gone through to the other side and somehow lifted off one of the pads. I am absolutely certain that the board was not at fault - just the user :-)

Anyway thanks very much for all the help.

Will you be on for the Sunday net? Pascal has suggested there might be better propagation later in the day, so I will give it a try at 9.30AM BST, and give it another go at 19.00 BST. Can you run an amp Steve - I think we need a bit more grunt?

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Lee,
>
> Congratulations on finding it, I'm glad its working OK now.
>
> I have to ask this.... was it our problem or yours? The PCBs should be
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> >>>> Before you do any of that though its worth downloading the PCB plot from
> >>>> the files section of the group and check there are no unintended
> >>>> connections around the mixer transformer - try this link
> >>>> http://uk.groups.yahoo.com/group/mkars80/files/MKARS 80.pdf .
> >>>>
> >>>> Steve G6ALU
> >>>>
> >>>> On 05/04/2011 20:32, panzerbeeb wrote:
> >>>>> Lee, when you say the waveform has some distortion, is it basically unsymetrical from positive to negative half cycles?
> >>>>> If so it might be worth checking the mixer diodes, I had these sort of symptoms, together with a fairly deaf rx, turned out to be a mixer diode that thought it was a 430 ohm resistor. Had to replace all 4 diodes in the mixer to get a decent vfo signal null.

> >>>>>
> >>>>> Mike G8EEY
> >>>>>
> >>>>> --- In mkars80@....uk, "g3sew"<g3sew@> wrote:
> >>>>>> Hi,
> >>>>>>
> >>>>>> I am still trying to track down why I get images and intermod on my MKARS. Tracing a signal through from the antenna socket, my MKARS has massive amounts of VFO signal in the main signal path. Q19 has 400mV p-p on its collector at the VFO frequency. This comes from T4 (when I remove C81 it stops). On pin 2 and 6 of T4 I have 500mV p-p (on Mick's this shows no VFO signal at all). The other pins of T4 are similar to Mick's, but pins 3 and 5 have around 2V p-p with some distortion, whereas Mick's has 1.5V p-p clean.
> >>>>>>
> >>>>>> Continuity on T4 looks OK.
> >>>>>>
> >>>>>> I am surprised that my MKARS works at all, particularly as the TX seems to be giving a clean output.
> >>>>>>
> >>>>>> Any suggestions gratefully received,
> >>>>>>
> >>>>>>
> >>>>>> Lee G3SEW
> >>>>>>
> >>>>>
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> >>>>>
> >>>>> Yahoo! Groups Links
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> >>>>> -----
> >>>>> No virus found in this message.
> >>>>> Checked by AVG - www.avg.com
> >>>>> Version: 10.0.1209 / Virus Database: 1500/3552 - Release Date: 04/05/11
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1209 / Virus Database: 1500/3555 - Release Date: 04/06/11
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>

2040. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-07 20:00:09 UTC
From: Pascal
Topic: 2012 Message: 2040

Hi, about the drift, I found C45 & C47 must be NPO, and the cap I have on my kit are not - they looks like standart ceramic cap,...so my next job is to find the right parts and to exchange them,..

--- In mkars80@yahoogroups.co.uk, "Pascal" <pascal@...> wrote:
>
> Unfortunatly, at 18GMT today, nothing heard, propagation was not there
> I will try later, 19 GMT
>
> --- In mkars80@..., "Pascal" <pascal@> wrote:
> >
> > Hi
> > I am ok for 18 GMT, 19 local french hour tomorrow, Wednesday
> > Hope to hear you tomorrow around 3690
> > Pascal
> >
> > --- In mkars80@..., "g3sew" <g3sew@> wrote:
> > >
> > > Duncan,
> > >
> > > I think you are probably right about the time. 18.00 GMT would be better for long distance propagation (though it might be more noisy). What do you think Pascal?
> > >
> > >
> > > lee G3SEW
> > >
> > >
> > > --- In mkars80@....uk, "G4DFV" <g4dfv.electron1@> wrote:
> > > >
> > > > I don't know about 80m conditions at others QTH's,
> > > > but in the morning at my location most signals on the band are incredibly
> > > > quiet, many right down in the noise.
> > > > In late afternoon and evening the propagation gets much better
> > > > despite any noise.
> > > > I reckon it wouldn't be a bad thing to give it a go and see what happens.
> > > > I would suggest an hour later, 7.00pm (18.00 GMT)?
> > > >
> > > > Duncan G4DFV
> > > >
> > > >
> > > > Duncan/Pascal,
> > > >
> > > > I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
> > > >

> > > > Lee G3SEW
> > > >
> > > >
> > > >
> > > >
> > > > [Non-text portions of this message have been removed]
> > > >
> > >
> >
>

2041. Re: [mkars80] Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-07 21:09:06 UTC
From: Steve Drury
Topic: 2012 Message: 2041

Pascal,

If you fitted the parts in order as given by the manual then they will
be NP0 capacitors - there are two in bag one.

You can tell them apart from "ordinary" 1nF as the ordinary ones will be
round in shape, none of the NP0 types I supplied are round.

Let me know if you need new ones.

Regards,
Steve G6ALU

On 07/04/2011 21:00, Pascal wrote:
> Hi, about the drift, I found C45& C47 must be NPO, and the cap I have on my kit are not - they looks like standart ceramic cap,...so my next job is to find the right parts and to exchange them,..
>
> --- In mkars80@..., "Pascal"<pascal@...> wrote:
>> Unfortunatly, at 18GMT today, nothing heard, propagation was not there
>> I will try later, 19 GMT
>>
>> --- In mkars80@..., "Pascal"<pascal@> wrote:
>>> Hi
>>> I am ok for 18 GMT, 19 local french hour tomorrow, Wednesday
>>> Hope to hear you tomorrow around 3690
>>> Pascal
>>>
>>> --- In mkars80@..., "g3sew"<g3sew@> wrote:
>>>> Duncan,
>>>>
>>>> I think you are probably right about the time. 18.00 GMT would be better for long distance propagation (though it might be more noisy). What do you think Pascal?
>>>>
>>>>
>>>> lee G3SEW
>>>>
>>>>
>>>> --- In mkars80@..., "G4DFV"<g4dfv.electron1@> wrote:
>>>>> I don't know about 80m conditions at others QTH's,
>>>>> but in the morning at my location most signals on the band are incredibly
>>>>> quiet, many right down in the noise.
>>>>> In late afternoon and evening the propagation gets much better
>>>>> despite any noise.
>>>>> I reckon it wouldn't be a bad thing to give it a go and see what happens.
>>>>> I would suggest an hour later, 7.00pm (18.00 GMT)?

>>>>>
>>>>> Duncan G4DFV
>>>>>
>>>>>
>>>>> Duncan/Pascal,
>>>>>
>>>>> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
>>>>>
>>>>> Lee G3SEW
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> [Non-text portions of this message have been removed]
>>>>>
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> ------------------------------------
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3557 - Release Date: 04/07/11
>
>

2042. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-08 16:04:24 UTC
From: Pascal
Topic: 2012 Message: 2042

Steve, I did not confuse, as these C45 & C47 are 68 and 100 pf , not 1nf,but don't worry, I will receive new parts on next week from my supplier.
I will be pleased to hear you on the net this week-end.
73 Pascal

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Pascal,
>
> If you fitted the parts in order as given by the manual then they will
> be NP0 capacitors - there are two in bag one.
>
> You can tell them apart from "ordinary" 1nF as the ordinary ones will be
> round in shape, none of the NP0 types I supplied are round.
>
> Let me know if you need new ones.
>
> Regards,
> Steve G6ALU
>
> On 07/04/2011 21:00, Pascal wrote:
> > Hi, about the drift, I found C45& C47 must be NPO, and the cap I have on my kit are not - they looks like standart ceramic cap,...so my next job is to find the right parts and to exchange them,..
> >
> > --- In mkars80@yahoogroups.co.uk, "Pascal"<pascal@> wrote:
> >> Unfortunatly, at 18GMT today, nothing heard, propagation was not there
> >> I will try later, 19 GMT
> >>
> >> --- In mkars80@..., "Pascal"<pascal@> wrote:
> >>> Hi
> >>> I am ok for 18 GMT, 19 local french hour tomorrow, Wednesday
> >>> Hope to hear you tomorrow around 3690
> >>> Pascal
> >>>
> >>> --- In mkars80@yahoogroups.co.uk, "g3sew"<g3sew@> wrote:
> >>>> Duncan,
> >>>>
> >>>> I think you are probably right about the time. 18.00 GMT would be better for long distance propagation (though it might be more noisy). What do you think Pascal?
> >>>>
> >>>>
> >>>> lee G3SEW
> >>>>
> >>>>

> >>>> --- In mkars80@yahoogroups.co.uk, "G4DFV"<g4dfv.electron1@> wrote:
> >>>>> I don't know about 80m conditions at others QTH's,
> >>>>> but in the morning at my location most signals on the band are incredibly
> >>>>> quiet, many right down in the noise.
> >>>>> In late afternoon and evening the propagation gets much better
> >>>>> despite any noise.
> >>>>> I reckon it wouldn't be a bad thing to give it a go and see what happens.
> >>>>> I would suggest an hour later, 7.00pm (18.00 GMT)?
> >>>>>
> >>>>> Duncan G4DFV
> >>>>>
> >>>>>
> >>>>> Duncan/Pascal,
> >>>>>
> >>>>> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be
better, but the band will probably be more noisy?
> >>>>>
> >>>>> Lee G3SEW
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>> [Non-text portions of this message have been removed]
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> >
> > Yahoo! Groups Links
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> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1209 / Virus Database: 1500/3557 - Release Date: 04/07/11
> >
> >
>

2043. Re: [mkars80] Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-08 18:14:54 UTC
From: Steve Drury
Topic: 2012 Message: 2043

Sorry Pascal... too much on my mind and getting confused!

C45 and C47 were at one time small blue capacitors - these were sold as NP0 and we didn't have any problems with them, latterly I had to substitute from other manufacturers but again they were purchased as NP0 but certainly haven't had as much testing as the originals. NP0 disc ceramics generally have a black band on the top indicating NP0 dielectric.

I think I'm back to the original type now if you need any.

A method I have used to check individual component temperature sensitivity is to get a small pipe - like you get on a can of freezer, WD40 etc - and gently blow through it directing the draught directly at the component in question. Components with poor stability soon become obvious.

Probably the least stable part in theVFO is C38 but this is the best trimmer I could find for the job - the purist might set it then remove measure it and replace with NP0 type capacitors.

Regards,
Steve G6ALU

On 08/04/2011 17:04, Pascal wrote:
> Steve, I did not confuse, as these C45& C47 are 68 and 100 pf , not 1nf,but don't worry, I will receive new parts on next week from my supplier.
> I will be pleased to hear you on the net this week-end.
> 73 Pascal
>
> --- In mkars80@..., Steve Drury<g6alu@...> wrote:
>> Pascal,
>>
>> If you fitted the parts in order as given by the manual then they will
>> be NP0 capacitors - there are two in bag one.
>>
>> You can tell them apart from "ordinary" 1nF as the ordinary ones will be
>> round in shape, none of the NP0 types I supplied are round.
>>
>> Let me know if you need new ones.
>>
>> Regards,
>> Steve G6ALU
>>
>> On 07/04/2011 21:00, Pascal wrote:
>>> Hi, about the drift, I found C45& C47 must be NPO, and the cap I have on my kit are not - they looks like standart ceramic cap,...so my next job is to find the right parts and to

exchange them,..
>>>
>>> --- In mkars80@..., "Pascal"<pascal@> wrote:
>>>> Unfortunatly, at 18GMT today, nothing heard, propagation was not there
>>>> I will try later, 19 GMT
>>>>
>>>> --- In mkars80@..., "Pascal"<pascal@> wrote:
>>>>> Hi
>>>>> I am ok for 18 GMT, 19 local french hour tomorrow, Wednesday
>>>>> Hope to hear you tomorrow around 3690
>>>>> Pascal
>>>>>
>>>>> --- In mkars80@..., "g3sew"<g3sew@> wrote:
>>>>>> Duncan,
>>>>>>
>>>>>> I think you are probably right about the time. 18.00 GMT would be better for long
distance propagation (though it might be more noisy). What do you think Pascal?
>>>>>>
>>>>>>
>>>>>> lee G3SEW
>>>>>>
>>>>>>
>>>>>> --- In mkars80@..., "G4DFV"<g4dfv.electron1@> wrote:
>>>>>>> I don't know about 80m conditions at others QTH's,
>>>>>>> but in the morning at my location most signals on the band are incredibly
>>>>>>> quiet, many right down in the noise.
>>>>>>> In late afternoon and evening the propagation gets much better
>>>>>>> despite any noise.
>>>>>>> I reckon it wouldn't be a bad thing to give it a go and see what happens.
>>>>>>> I would suggest an hour later, 7.00pm (18.00 GMT)?
>>>>>>>
>>>>>>> Duncan G4DFV
>>>>>>>
>>>>>>>
>>>>>>> Duncan/Pascal,
>>>>>>>
>>>>>>> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be
better, but the band will probably be more noisy?
>>>>>>>
>>>>>>> Lee G3SEW
>>>>>>>
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>>>>>>> [Non-text portions of this message have been removed]
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>>> Yahoo! Groups Links

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>>> No virus found in this message.
>>> Checked by AVG - www.avg.com
>>> Version: 10.0.1209 / Virus Database: 1500/3557 - Release Date: 04/07/11
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3559 - Release Date: 04/08/11
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>

2044. Re: [mkars80] Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-09 00:32:30 UTC
From: Ken Pendarvis
Topic: 2012 Message: 2044

Excuse me if I have this wrong....but could polystyrene
caps be used in place of the small critical value NPO caps in
LC tuned circuits? I have seen these used in other
QRP LO's and such.

FWIW, after a few minues, my MKARS doesn't
drift appreciably.

There is a mod to stabilze the VFO in the BITX20A by
using Polystyrent caps, but it doesn't use the "Huff & Puff"
design. Just a thought.
73, Ken AD6KA
----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Friday, April 08, 2011 11:14 AM
Subject: Re: [mkars80] Re: frequency drift

Sorry Pascal... too much on my mind and getting confused!

C45 and C47 were at one time small blue capacitors - these were sold as
NP0 and we didn't have any problems with them, latterly I had to
substitute from other manufacturers but again they were purchased as NP0
but certainly haven't had as much testing as the originals. NP0 disc
ceramics generally have a black band on the top indicating NP0 dielectric.

I think I'm back to the original type now if you need any.

A method I have used to check individual component temperature
sensitivity is to get a small pipe - like you get on a can of freezer,
WD40 etc - and gently blow through it directing the draught directly at
the component in question. Components with poor stability soon become
obvious.

Probably the least stable part in theVFO is C38 but this is the best
trimmer I could find for the job - the purist might set it then remove
measure it and replace with NP0 type capacitors.

Regards,
Steve G6ALU

On 08/04/2011 17:04, Pascal wrote:
> Steve, I did not confuse, as these C45& C47 are 68 and 100 pf , not 1nf,but don't worry,
I will receive new parts on next week from my supplier.
> I will be pleased to hear you on the net this week-end.
> 73 Pascal
>

> --- In mkars80@..., Steve Drury<g6alu@...> wrote:
>> Pascal,
>>
>> If you fitted the parts in order as given by the manual then they will
>> be NP0 capacitors - there are two in bag one.
>>
>> You can tell them apart from "ordinary" 1nF as the ordinary ones will be
>> round in shape, none of the NP0 types I supplied are round.
>>
>> Let me know if you need new ones.
>>
>> Regards,
>> Steve G6ALU
>>
>> On 07/04/2011 21:00, Pascal wrote:
>>> Hi, about the drift, I found C45& C47 must be NPO, and the cap I have on my kit are not - they looks like standart ceramic cap,...so my next job is to find the right parts and to exchange them,..
>>>
>>> --- In mkars80@..., "Pascal"<pascal@> wrote:
>>>> Unfortunatly, at 18GMT today, nothing heard, propagation was not there
>>>> I will try later, 19 GMT
>>>>
>>>> --- In mkars80@..., "Pascal"<pascal@> wrote:
>>>>> Hi
>>>>> I am ok for 18 GMT, 19 local french hour tomorrow, Wednesday
>>>>> Hope to hear you tomorrow around 3690
>>>>> Pascal
>>>>>
>>>>> --- In mkars80@..., "g3sew"<g3sew@> wrote:
>>>>>> Duncan,
>>>>>>
>>>>>> I think you are probably right about the time. 18.00 GMT would be better for long distance propagation (though it might be more noisy). What do you think Pascal?
>>>>>>
>>>>>>
>>>>>> lee G3SEW
>>>>>>
>>>>>>
>>>>>> --- In mkars80@..., "G4DFV"<g4dfv.electron1@> wrote:
>>>>>>> I don't know about 80m conditions at others QTH's,
>>>>>>> but in the morning at my location most signals on the band are incredibly
>>>>>>> quiet, many right down in the noise.
>>>>>>> In late afternoon and evening the propagation gets much better
>>>>>>> despite any noise.
>>>>>>> I reckon it wouldn't be a bad thing to give it a go and see what happens.
>>>>>>> I would suggest an hour later, 7.00pm (18.00 GMT)?
>>>>>>>
>>>>>>> Duncan G4DFV
>>>>>>>

>>>>>>>
>>>>>>> Duncan/Pascal,
>>>>>>>
>>>>>>> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be better, but the band will probably be more noisy?
>>>>>>>
>>>>>>> Lee G3SEW
>>>>>>>
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>>>>>>> [Non-text portions of this message have been removed]
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>>> No virus found in this message.
>>> Checked by AVG - www.avg.com
>>> Version: 10.0.1209 / Virus Database: 1500/3557 - Release Date: 04/07/11
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3559 - Release Date: 04/08/11
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[Non-text portions of this message have been removed]

2045. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-09 05:10:17 UTC
From: vk4apn
Topic: 2012 Message: 2045

From my distant memory cells.....
NPO caps = negative temp coefficient, whereas polystyrene have a positive temp coefficient.
In the past I have used a combination selected experimentally to achieve better stability.
I look forward to see how the huff and puff circuit works.
Paul vk4apn

--- In mkars80@..., "Ken Pendarvis" <kenp@...> wrote:
>
> Excuse me if I have this wrong....but could polystyrene
> caps be used in place of the small critical value NPO caps in
> LC tuned circuits? I have seen these used in other
> QRP LO's and such.
>
> FWIW, after a few minues, my MKARS doesn't
> drift appreciably.
>
> There is a mod to stabilze the VFO in the BITX20A by
> using Polystyrent caps, but it doesn't use the "Huff & Puff"
> design. Just a thought.
> 73, Ken AD6KA
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Friday, April 08, 2011 11:14 AM
> Subject: Re: [mkars80] Re: frequency drift
>
>
>
>
> Sorry Pascal... too much on my mind and getting confused!
>
> C45 and C47 were at one time small blue capacitors - these were sold as
> NP0 and we didn't have any problems with them, latterly I had to
> substitute from other manufacturers but again they were purchased as NP0
> but certainly haven't had as much testing as the originals. NP0 disc
> ceramics generally have a black band on the top indicating NP0 dielectric.
>
> I think I'm back to the original type now if you need any.
>
> A method I have used to check individual component temperature
> sensitivity is to get a small pipe - like you get on a can of freezer,
> WD40 etc - and gently blow through it directing the draught directly at
> the component in question. Components with poor stability soon become
> obvious.
>
> Probably the least stable part in theVFO is C38 but this is the best

> trimmer I could find for the job - the purist might set it then remove
> measure it and replace with NP0 type capacitors.
>
> Regards,
> Steve G6ALU
>
> On 08/04/2011 17:04, Pascal wrote:
> > Steve, I did not confuse, as these C45& C47 are 68 and 100 pf , not 1nf,but don't worry, I will receive new parts on next week from my supplier.
> > I will be pleased to hear you on the net this week-end.
> > 73 Pascal
> >
> > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> >> Pascal,
> >>
> >> If you fitted the parts in order as given by the manual then they will
> >> be NP0 capacitors - there are two in bag one.
> >>
> >> You can tell them apart from "ordinary" 1nF as the ordinary ones will be
> >> round in shape, none of the NP0 types I supplied are round.
> >>
> >> Let me know if you need new ones.
> >>
> >> Regards,
> >> Steve G6ALU
> >>
> >> On 07/04/2011 21:00, Pascal wrote:
> >>> Hi, about the drift, I found C45& C47 must be NPO, and the cap I have on my kit are not - they looks like standart ceramic cap,...so my next job is to find the right parts and to exchange them,..
> >>>
> >>> --- In mkars80@yahoogroups.co.uk, "Pascal"<pascal@> wrote:
> >>>> Unfortunatly, at 18GMT today, nothing heard, propagation was not there
> >>>> I will try later, 19 GMT
> >>>>
> >>>> --- In mkars80@..., "Pascal"<pascal@> wrote:
> >>>>> Hi
> >>>>> I am ok for 18 GMT, 19 local french hour tomorrow, Wednesday
> >>>>> Hope to hear you tomorrow around 3690
> >>>>> Pascal
> >>>>>
> >>>>> --- In mkars80@..., "g3sew"<g3sew@> wrote:
> >>>>>> Duncan,
> >>>>>>
> >>>>>> I think you are probably right about the time. 18.00 GMT would be better for long distance propagation (though it might be more noisy). What do you think Pascal?
> >>>>>>
> >>>>>>
> >>>>>> lee G3SEW
> >>>>>>

> >>>>>>
> >>>>>> --- In mkars80@..., "G4DFV"<g4dfv.electron1@> wrote:
> >>>>>>> I don't know about 80m conditions at others QTH's,
> >>>>>>> but in the morning at my location most signals on the band are incredibly
> >>>>>>> quiet, many right down in the noise.
> >>>>>>> In late afternoon and evening the propagation gets much better
> >>>>>>> despite any noise.
> >>>>>>> I reckon it wouldn't be a bad thing to give it a go and see what happens.
> >>>>>>> I would suggest an hour later, 7.00pm (18.00 GMT)?
> >>>>>>>
> >>>>>>> Duncan G4DFV
> >>>>>>>
> >>>>>>>
> >>>>>>> Duncan/Pascal,
> >>>>>>>
> >>>>>>> I wonder if it is worth trying 6pm (17.00GMT) on Sundays. Propagation should be
better, but the band will probably be more noisy?
> >>>>>>>
> >>>>>>> Lee G3SEW
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> >>>>>>> [Non-text portions of this message have been removed]
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> >>> -----
> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 10.0.1209 / Virus Database: 1500/3557 - Release Date: 04/07/11
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> > > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1209 / Virus Database: 1500/3559 - Release Date: 04/08/11
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> [Non-text portions of this message have been removed]
>

2046. Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-09 05:43:05 UTC
From: g3oth
Topic: 2012 Message: 2046

Hi Paul,

The TC of NP0 ceramic capacitors is essentially zero.
The N (Negative) and P (Positive) both refer to 0 (Zero) TC

C0G (EIA) or NP0 (industry spec) is the material with the lowest capacitance/temperature dependence (Negative-Positive zero). C0G/NP0 dielectrics have the lowest losses, and are used in filters, as timing elements, and oscillators.

NP0 refers to the shape of the capacitor's temperature coefficient graph (how capacitance changes with temperature). NP0 means that the graph is flat and the device is not affected by temperature changes.

For more info about Classes of Ceramics and how to decode the various type nomenclature used visit:

http://en.wikipedia.org/wiki/Ceramic_capacitor

It should all make sense to you then.

73 de Charles G3OTH

2047. MFJ 259B ANALYSER REPAIR

Yahoo group: mkars80
Date: 2011-04-09 07:07:42 UTC
From: fredog
Topic: 2047 Message: 2047

Sorry guys as this is a bit off topic but does anyone know of a repairer for my MFJ 259B in the UK?
73 Glyn G3ZSV

2048. Re: [mkars80] Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-09 07:42:11 UTC
From: Steve Drury
Topic: 2012 Message: 2048

I looked at polystyrene types for the 1nF feedback capacitors - we tried both ceramic and polystyrene in several radios; both have different temperature coefficients and even within the same type of capacitor they behave slightly differently.

Some VFO were more stable with polystyrene whilst others were more stable with NP0 ceramic, I guess in some cases the polystyrene capacitors were cancelling out a temperature coefficient in the other direction.

Steve G6ALU

On 09/04/2011 06:43, g3oth wrote:
> Hi Paul,
>
> The TC of NP0 ceramic capacitors is essentially zero.
> The N (Negative) and P (Positive) both refer to 0 (Zero) TC
>
> C0G (EIA) or NP0 (industry spec) is the material with the lowest capacitance/temperature dependence (Negative-Positive zero). C0G/NP0 dielectrics have the lowest losses, and are used in filters, as timing elements, and oscillators.
>
> NP0 refers to the shape of the capacitor's temperature coefficient graph (how capacitance changes with temperature). NP0 means that the graph is flat and the device is not affected by temperature changes.
>
> For more info about Classes of Ceramics and how to decode the various type nomenclature used visit:
>
> http://en.wikipedia.org/wiki/Ceramic_capacitor
>
> It should all make sense to you then.
>
> 73 de Charles G3OTH
>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3559 - Release Date: 04/08/11
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2049. Re: [mkars80] Re: frequency drift

Yahoo group: mkars80
Date: 2011-04-09 18:07:40 UTC
From: Ken Pendarvis
Topic: 2012 Message: 2049

Thanks for the interesting info re styrene caps, Steve.
Ken AD6KA
----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Saturday, April 09, 2011 12:42 AM
Subject: Re: [mkars80] Re: frequency drift

I looked at polystyrene types for the 1nF feedback capacitors - we tried both ceramic and polystyrene in several radios; both have different temperature coefficients and even within the same type of capacitor they behave slightly differently.

Some VFO were more stable with polystyrene whilst others were more stable with NP0 ceramic, I guess in some cases the polystyrene capacitors were cancelling out a temperature coefficient in the other direction.

Steve G6ALU

On 09/04/2011 06:43, g3oth wrote:
> Hi Paul,
>
> The TC of NP0 ceramic capacitors is essentially zero.
> The N (Negative) and P (Positive) both refer to 0 (Zero) TC
>
> C0G (EIA) or NP0 (industry spec) is the material with the lowest capacitance/temperature dependence (Negative-Positive zero). C0G/NP0 dielectrics have the lowest losses, and are used in filters, as timing elements, and oscillators.
>
> NP0 refers to the shape of the capacitor's temperature coefficient graph (how capacitance changes with temperature). NP0 means that the graph is flat and the device is not affected by temperature changes.
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> For more info about Classes of Ceramics and how to decode the various type nomenclature used visit:
>
> http://en.wikipedia.org/wiki/Ceramic_capacitor
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> 73 de Charles G3OTH
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1209 / Virus Database: 1500/3559 - Release Date: 04/08/11
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>

[Non-text portions of this message have been removed]

2050. Sunday morning net

Yahoo group: mkars80
Date: 2011-04-10 07:57:50 UTC
From: g3sew
Topic: 2050 Message: 2050

Hi

Anyone up for the Sunday morning net at 9.30 BST on 3.690 this morning?

I will also listen out at 19.00 BST to see if anyone is around.

Lee G3SEW

2051. Assembly error

Yahoo group: mkars80
Date: 2011-04-11 19:38:22 UTC
From: g3sew
Topic: 2051 Message: 2051

Steve,

I have tried a couple of times to assemble the source code for the MKARS in MPLAB, and keep getting the same build errors.

The first error flagged is:
Error[150] C:\USERS\LEE\DOCUMENTS\HOME_NEW\RADIO\MKARS 80\MKARS SOURCE CODE\MKARS SOURCE CODE - COPY\MKARS80-V2_4.ASM 130 : Labels must be defined in a code or data section when making an object file

Any ideas?

Lee

2052. Re: [mkars80] Assembly error

Yahoo group: mkars80
Date: 2011-04-11 20:21:56 UTC
From: Steve Drury
Topic: 2051 Message: 2052

Lee,

No I don't recognise that error - have you modified my source code?

Try this:

1. Make a new folder
2. Download the zip file and unzip in to the new folder
3. Double click on "HuffNPuff.mcp"
4. MPLAB should now start up with some warnings about files in
different places.
5. Go to "Project... Build All", it will ask if you want the code
compiled as "Absolute" or "relocatable"; click absolute.
6. It should now assemble and you are done.

Let me know at what stage it falls over.

Steve G6ALU

On 11/04/2011 20:38, g3sew wrote:
> Steve,
>
> I have tried a couple of times to assemble the source code for the MKARS in MPLAB, and keep getting the same build errors.
>
> The first error flagged is:
> Error[150] C:\USERS\LEE\DOCUMENTS\HOME_NEW\RADIO\MKARS 80\MKARS SOURCE CODE\MKARS SOURCE CODE - COPY\MKARS80-V2_4.ASM 130 : Labels must be defined in a code or data section when making an object file
>
> Any ideas?
>
>
> Lee
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1321 / Virus Database: 1500/3565 - Release Date: 04/11/11
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[Non-text portions of this message have been removed]

2053. Re: Assembly error

Yahoo group: mkars80
Date: 2011-04-12 11:52:34 UTC
From: g3sew
Topic: 2051 Message: 2053

For some unknown reason I had opted for "relocatable". It is working fine now. Many thanks Steve.

Lee G3SEW

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Lee,
>
> No I don't recognise that error - have you modified my source code?
>
> Try this:
>
> 1. Make a new folder
> 2. Download the zip file and unzip in to the new folder
> 3. Double click on "HuffNPuff.mcp"
> 4. MPLAB should now start up with some warnings about files in
> different places.
> 5. Go to "Project... Build All", it will ask if you want the code
> compiled as "Absolute" or "relocatable"; click absolute.
> 6. It should now assemble and you are done.
>
> Let me know at what stage it falls over.
>
> Steve G6ALU
>
> On 11/04/2011 20:38, g3sew wrote:
> > Steve,
> >
> > I have tried a couple of times to assemble the source code for the MKARS in MPLAB, and keep getting the same build errors.
> >
> > The first error flagged is:
> > Error[150] C:\USERS\LEE\DOCUMENTS\HOME_NEW\RADIO\MKARS 80\MKARS SOURCE CODE\MKARS SOURCE CODE - COPY\MKARS80-V2_4.ASM 130 : Labels must be defined in a code or data section when making an object file
> >
> > Any ideas?
> >
> >
> > Lee
> >
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1321 / Virus Database: 1500/3565 - Release Date: 04/11/11
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>
> [Non-text portions of this message have been removed]
>

2054. xtal selection?

Yahoo group: mkars80
Date: 2011-04-14 01:01:23 UTC
From: vk4apn
Topic: 2054 Message: 2054

I measured the parameters of the 5 xtals (using my minivna & xtal jig) and ALL parameters were very close, I have the following spread of freqs:-58hz, -40hz, 0 (centre freq), +39hz, +42hz.

I was going to put the highest freq in the bfo ? Any benefits in the order of the others?

Paul

[Non-text portions of this message have been removed]

2055. Re: [mkars80] xtal selection?

Yahoo group: mkars80
Date: 2011-04-14 19:28:10 UTC
From: Steve Drury
Topic: 2054 Message: 2055

Hi Paul,

I thought I replied earlier but nothings appeared yet!

I would use the -58Hz crystal as the BFO as its furthest from the
norm... it will easily adjust to 10.000MHz.

Steve G6ALU

On 14/04/2011 02:01, vk4apn wrote:
> I measured the parameters of the 5 xtals (using my minivna& xtal jig)
> and ALL parameters were very close, I have the following spread of
> freqs:-58hz, -40hz, 0 (centre freq), +39hz, +42hz.
>
> I was going to put the highest freq in the bfo ? Any benefits in the
> order of the others?
>
> Paul
>
>
>
>
> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1321 / Virus Database: 1500/3571 - Release Date: 04/13/11
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2056. T2

Yahoo group: mkars80
Date: 2011-04-15 17:36:11 UTC
From: w8znx
Topic: 2056 Message: 2056

Hello Gang

can't seem to be able to wind T2

without scraping some insulation off the wire

comes off as i pull the wire thrugh

the BN43-0202 core

yours truly

mac w8znx

2057. Re: T2

Yahoo group: mkars80
Date: 2011-04-15 19:20:12 UTC
From: John Tyler
Topic: 2056 Message: 2057

Hi Mac.

I'm sure Steve will have a suggestion buts here's mine for what it's worth.

I must admit that I didn't have any problems, or not that I remember because it was a couple of years or so since I built mine.

My suggestion would be to use something like a wooden cocktail stick or toothpick to act as a cushion to keep the wire away from the sharp edge of the hole at the opposite end to where the wire is emerging if you see what I mean. Also keep it in line with the hole so that contact with the edge is minimal as it is fed through. Perhaps a second person may be able to help?

I realise that this advice is obvious but it's all I can think of.

I wish you all the very best and I can assure you it will be worth the trouble, it's a very nice kit. One last thing, consider a slow motion drive for the tuning, it makes quite a difference.

Regards,

John G4GCL

--- In mkars80@yahoogroups.co.uk, "w8znx" <w8znx@...> wrote:
>
> Hello Gang
>
> can't seem to be able to wind T2
>
> without scraping some insulation off the wire
>
> comes off as i pull the wire thrugh
>
> the BN43-0202 core
>
> yours truly
>
> mac w8znx
>

2058. Re: [mkars80] Re: T2

Yahoo group: mkars80
Date: 2011-04-15 19:29:56 UTC
From: Ken Pendarvis
Topic: 2056 Message: 2058

Hi Mac:

When I am winding binocular cores, and they
seem to have sharp "edges" on the holes, I first use some very fine grain
emory paper to smooth the edges. (As not to scrape off the insulation).
You can do this quite quickly and easily by wrapping a narrow
length of the emory paper around the end of a pencil point or
tapered ball point pen. Then press the pencil/pen in the hole
and gently turn it and work down that "edge".

Also make certain that you are using the correct diameter wire.
73, Ken AD6KA

----- Original Message -----
From: John Tyler
To: mkars80@...
Sent: Friday, April 15, 2011 12:20 PM
Subject: [mkars80] Re: T2

Hi Mac.

I'm sure Steve will have a suggestion buts here's mine for what it's
worth.

I must admit that I didn't have any problems, or not that I remember
because it was a couple of years or so since I built mine.

My suggestion would be to use something like a wooden cocktail stick or
toothpick to act as a cushion to keep the wire away from the sharp edge
of the hole at the opposite end to where the wire is emerging if you see
what I mean. Also keep it in line with the hole so that contact with the
edge is minimal as it is fed through. Perhaps a second person may be
able to help?

I realise that this advice is obvious but it's all I can think of.

I wish you all the very best and I can assure you it will be worth the
trouble, it's a very nice kit. One last thing, consider a slow motion
drive for the tuning, it makes quite a difference.

Regards,

John G4GCL

--- In mkars80@..., "w8znx" <w8znx@...> wrote:
>
> Hello Gang
>

> can't seem to be able to wind T2
>
> without scraping some insulation off the wire
>
> comes off as i pull the wire thrugh
>
> the BN43-0202 core
>
> yours truly
>
> mac w8znx
>

[Non-text portions of this message have been removed]

2059. Re: T2

Yahoo group: mkars80
Date: 2011-04-16 08:20:47 UTC
From: vk4apn
Topic: 2056 Message: 2059

I had the same trouble - the enamel on the supplied is quite "soft" and is easily solderable - that is the trade off. I ended up using some ECW from my own supply. It was made by the scientific wire company and the enamel was tough and had to be scaped off with an exacto knife before I could tin it! If that wasn't successful I was going to use some thin teflon tube I have over the wire.

Paul

--- In mkars80@..., "w8znx" <w8znx@...> wrote:
>
> Hello Gang
>
> can't seem to be able to wind T2
>
> without scraping some insulation off the wire
>
> comes off as i pull the wire thrugh
>
> the BN43-0202 core
>
> yours truly
>
> mac w8znx
>

2060. Re: [mkars80] T2

Yahoo group: mkars80
Date: 2011-04-16 08:42:53 UTC
From: Steve Drury
Topic: 2056 Message: 2060

Mac,

If none of the other suggestions work for you then its OK to use the 27 SWG wire - this has been done before.

There is a "knack" to winding 22 SWG wire - I preform the first turn and then "guide" the bending of the following turns to try and avoid damage to the enamel.

Regards,
Steve G6ALU

On 15/04/2011 18:36, w8znx wrote:
> Hello Gang
>
> can't seem to be able to wind T2
>
> without scraping some insulation off the wire
>
> comes off as i pull the wire thrugh
>
> the BN43-0202 core
>
> yours truly
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> mac w8znx
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1321 / Virus Database: 1500/3575 - Release Date: 04/15/11
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2061. Mounting IRF510 (Q1) Remotely

Yahoo group: mkars80
Date: 2011-05-01 14:40:47 UTC
From: jrwdlw
Topic: 2061 Message: 2061

What kind of problems might occur if I were to mount the IRF510 remotely from the PCB? Due to the type of case I would like to use, I would need to mount it about 2 inches (50mm) away from the PCB. Will I have problems with stray capacitance, rf, or other issues?

Thanks
John

2062. Re: [mkars80] Mounting IRF510 (Q1) Remotely

Yahoo group: mkars80
Date: 2011-05-01 16:46:16 UTC
From: Steve Drury
Topic: 2061 Message: 2062

Hi John,

I wouldn't recommend it as the added inductance of the leads are likely
to cause problems, my guess is low gain and possible instability.

Can you make up a simple aluminium (or copper) bracket to attach between
transistor and case? The transistor doesn't dissipate much power so thin
material would suffice.

Steve G6ALU

On 01/05/2011 15:40, jrwdlw wrote:
> What kind of problems might occur if I were to mount the IRF510 remotely from the PCB? Due to the type of case I would like to use, I would need to mount it about 2 inches (50mm) away from the PCB. Will I have problems with stray capacitance, rf, or other issues?
>
> Thanks
> John
>
>
>
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1325 / Virus Database: 1500/3607 - Release Date: 04/30/11
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>

2063. Rising voltage from 12v to abt 28v for IRF510?

Yahoo group: mkars80
Date: 2011-05-02 12:24:57 UTC
From: Rune
Topic: 2063 Message: 2063

Hello

Anybody tried to rice the voltage for the IRF510 to abt 24-28 V?
Will it survive? What can we expect regarding output power ?

73 de LA8GKA Rune

2064. Re: [mkars80] Rising voltage from 12v to abt 28v for IRF510?

Yahoo group: mkars80
Date: 2011-05-02 12:47:55 UTC
From: Steve Drury
Topic: 2063 Message: 2064

Hi Rune,

It will probably survive, I'm guessing 15 - 20W is easily possible but
there are other considerations; the LPF isn't suited to high power, both
the ferrites and capacitors will need changing for higher rated parts.

Regards,
Steve G6ALU

On 02/05/2011 13:24, Rune wrote:
> Hello
>
> Anybody tried to rice the voltage for the IRF510 to abt 24-28 V?
> Will it survive? What can we expect regarding output power ?
>
> 73 de LA8GKA Rune
>
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1325 / Virus Database: 1500/3609 - Release Date: 05/01/11
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>

2065. Re: Mounting IRF510 (Q1) Remotely

Yahoo group: mkars80
Date: 2011-05-02 13:40:37 UTC
From: Jonathan point
Topic: 2061 Message: 2065

John,

If you extend the leads, it will become rather unstable. You will also get RF feedback as well! Even long leads can do this - let alone extended ones. This is because the rig is unshielded and only gets away with it due to the low power and earthed PA mounting area.

If you look at the photos of my MK' (in the photos section under VK2JDP), you'll see that I used an L-bracket of 3mm aluminium. This works fine, as long as it is well-grounded. If you loosen the mounting bolts to the bracket, you get a CW transmitter :-(

Regards,

Jon Point
VK2JDP

--- In mkars80@..., "jrwdlw" <jrwdlw@...> wrote:
>
> What kind of problems might occur if I were to mount the IRF510 remotely from the PCB? Due to the type of case I would like to use, I would need to mount it about 2 inches (50mm) away from the PCB. Will I have problems with stray capacitance, rf, or other issues?
>
> Thanks
> John
>

2066. Re: [mkars80] Rising voltage from 12v to abt 28v for IRF510?

Yahoo group: mkars80
Date: 2011-05-03 10:01:52 UTC
From: G4DFV
Topic: 2063 Message: 2066

Is it really worth it?
Everything considered, increasing the MKARS80 output from 5 Watts to 20 Watts will only give you 1 'S' point increase in signal.

Duncan G4DFV

[Non-text portions of this message have been removed]

2067. Mixer configuration : Curiousity?

Yahoo group: mkars80
Date: 2011-05-04 08:11:39 UTC
From: Tony
Topic: 2067 Message: 2067

Hi,
I've noticed that the configuration of balanced mixers can vary between some of the reference sources.

Sometimes the VFO goes into the centre tap that connects to the diode bridge and sometimes it goes into the remaining winding that isn't centre tapped (as in the MKARS80.

Anyone got an explanation for this?

73
Tony
G6XMO
Sheffield

2068. Reducing band coverage?

Yahoo group: mkars80
Date: 2011-05-04 14:14:06 UTC
From: zaktherabbit
Topic: 2068 Message: 2068

Hi,

My MKARS80 tunes aprox 3.48 - 3.9. I'd liek to narrow this down, since on a band thats only 300kHz wide, an extra 100kHz coverage is some 1/4 of the dial! However, i have the trimmer on the polyvaricon fully meshed as it is.

I tried adding a bit extra capacitance across the tuning cap (tried 22pF and 33pF, but still couldnt seem to reduce the range. I realise now that i was increasing the range but decreasing the overall frequency!

Has anyone done any mods to reduce the range at all? Im guessing that im going to have to take a turn or two of the coil?

Regards

Martin

2069. Re: Reducing band coverage?

Yahoo group: mkars80
Date: 2011-05-04 14:54:08 UTC
From: Clive Reynolds
Topic: 2068 Message: 2069

Martin

I used a 47pF dipped silver mica across the Polycon. Mine tunes from 3.81MHz to 3.58MHz as I'm not using it down the CW end.

Regards

Clive G3GJA / G8EQZ

HESH Computer Services Ltd
12 Louis Pearlman Centre
Goulton Street
Hull HU3 4DL

Tel: 0845 1662725
Web: www.hesh.co.uk
Registered in England No. 3003479
VAT No. 647 3679 95

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[Non-text portions of this message have been removed]

2070. Re: Reducing band coverage?

Yahoo group: mkars80
Date: 2011-05-04 17:35:33 UTC
From: g3oth
Topic: 2068 Message: 2070

--- In mkars80@..., "zaktherabbit" <barfield673@...> wrote:
> I tried adding a bit extra capacitance across the tuning cap (tried 22pF and 33pF, but still couldnt seem to reduce the range. I realise now that i was increasing the range but decreasing the overall frequency!

Hi Martin, try the above experiment again as what you said does not hold water. Adding capacity as you described will indeed decrease the upper frequency as well as to a lesser extent decrease the lower frequency, BUT the overall range will NOT increase. You will find you will effectively end up with a reduced range that is not centred on the band. If you cant arrive at ideally what you want by adding parallel or series capacitors you will indeed need to reduce the value of L a little tocompensate but you will still have to adjust capacitors in tandem accordingly,
Jim Tonne W4ENE has produced a very nice free program specifically for the BITX VFO which you can use to model and experiment with such changes, I would recommend you download and experiment with it with values in a virtual sense before you start pulling your MKARS80 VFO apart. Then after you have discovered and become accustomed as to what is going on, tweak your MKARS80 to perfection. A google search should find you the program I mentioned.
73 de Charles G3OTH

2071. Re: [mkars80] Re: Reducing band coverage?

Yahoo group: mkars80
Date: 2011-05-04 18:21:44 UTC
From: Steve Drury
Topic: 2068 Message: 2071

Please read page 12 of the manual first to see if this will suitably
reduce the tuning range.

Steve G6ALU

On 04/05/2011 18:35, g3oth wrote:
>
> --- In mkars80@..., "zaktherabbit"<barfield673@...> wrote:
>> I tried adding a bit extra capacitance across the tuning cap (tried 22pF and 33pF, but still couldnt seem to reduce the range. I realise now that i was increasing the range but decreasing the overall frequency!
> Hi Martin, try the above experiment again as what you said does not hold water. Adding capacity as you described will indeed decrease the upper frequency as well as to a lesser extent decrease the lower frequency, BUT the overall range will NOT increase. You will find you will effectively end up with a reduced range that is not centred on the band. If you cant arrive at ideally what you want by adding parallel or series capacitors you will indeed need to reduce the value of L a little tocompensate but you will still have to adjust capacitors in tandem accordingly,
> Jim Tonne W4ENE has produced a very nice free program specifically for the BITX VFO which you can use to model and experiment with such changes, I would recommend you download and experiment with it with values in a virtual sense before you start pulling your MKARS80 VFO apart. Then after you have discovered and become accustomed as to what is going on, tweak your MKARS80 to perfection. A google search should find you the program I mentioned.
> 73 de Charles G3OTH
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> Version: 10.0.1325 / Virus Database: 1500/3613 - Release Date: 05/03/11
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>

2072. Re: Reducing band coverage?

Yahoo group: mkars80
Date: 2011-05-06 00:35:41 UTC
From: zaktherabbit
Topic: 2068 Message: 2072

Steve - i followed p.12 to start with, i couldnt get the coverage lower.

Charles - your right of course. I'll redo the test, the added capacitance should indeed have lowered the coverage. I didnt take detailed measurements as i normally would, so could well be mistaken

--- In mkars80@yahoogroups.co.uk, Steve Drury <g6alu@...> wrote:
>
> Please read page 12 of the manual first to see if this will suitably
> reduce the tuning range.
>
> Steve G6ALU
>
> On 04/05/2011 18:35, g3oth wrote:
> >
> > --- In mkars80@yahoogroups.co.uk, "zaktherabbit"<barfield673@> wrote:
> >> I tried adding a bit extra capacitance across the tuning cap (tried 22pF and 33pF, but still couldnt seem to reduce the range. I realise now that i was increasing the range but decreasing the overall frequency!
> > Hi Martin, try the above experiment again as what you said does not hold water. Adding capacity as you described will indeed decrease the upper frequency as well as to a lesser extent decrease the lower frequency, BUT the overall range will NOT increase. You will find you will effectively end up with a reduced range that is not centred on the band. If you cant arrive at ideally what you want by adding parallel or series capacitors you will indeed need to reduce the value of L a little tocompensate but you will still have to adjust capacitors in tandem accordingly,
> > Jim Tonne W4ENE has produced a very nice free program specifically for the BITX VFO which you can use to model and experiment with such changes, I would recommend you download and experiment with it with values in a virtual sense before you start pulling your MKARS80 VFO apart. Then after you have discovered and become accustomed as to what is going on, tweak your MKARS80 to perfection. A google search should find you the program I mentioned.
> > 73 de Charles G3OTH
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> > -----

> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1325 / Virus Database: 1500/3613 - Release Date: 05/03/11
> >
> >
>

2073. Re: MFJ 259B ANALYSER REPAIR

Yahoo group: mkars80
Date: 2011-05-06 14:52:35 UTC
From: manxmat@hotmail.com
Topic: 2047 Message: 2073

Hi Glyn

I have tried contacting ML&S last year to ask if we can purchase a new PCB (antenna connectors etc) for the IOMARS unit - I initially had a resposne & was told it would be a few weeks before they could give us a price as it had to be sent from the States.

After sending numerous emails, I gave up, I have also had zero emails from directly emailing MFJ themselves.

- Good luck with finding someone !!!!

In the meantime - I built one of these for my own use - I can't fault it at all, great piece of kit and excellent value for money!!

some info here:-
http://www.spirat.com.au/vk5zvs/pic11.htm

can order the kit here:-
http://www.scarc.org.au/index.php?option=com_content&view=article&id=47&Itemid=27

Took a few hours over a couple of evenings to build the unit, I had issues with 'oscillator kaput' message on the LCD and eventually traced my problem to the centre (common) pin on the rotary switch had not actually been connected to anything !!!

This kit does up to 30mhz, however in the first link, the author of this site has added another inductor and changed a couple of component values which give 6m coverage as well.

There is also another firmware mod which allows you to hook up to a serial port on a PC and run some software to create XLS type spreadsheet files so you can sweep the antenna and create graphs of SWR/Z Freq etc - all in all a great little bit of kit!!

Matty

MD0MAN

--- In mkars80@..., "fredog" <glynmaggs@...> wrote:
>
> Sorry guys as this is a bit off topic but does anyone know of a repairer for my MFJ 259B in the UK?
> 73 Glyn G3ZSV
>

2074. Re: MFJ 259B ANALYSER REPAIR

Yahoo group: mkars80
Date: 2011-05-06 15:14:20 UTC
From: Mark Charlton
Topic: 2047 Message: 2074

I too have built one of these analysers. You may like to look at PAOFRI web site as he has done some mods for the analyser.

.http://www.xs4all.nl/~pa0fri/Diversen/VK5JST/Ant%20analyzereng.htm

Frits's web site it worth a good look around, anyway, http://www.pa0fri.com/

73, G6ZQS Mark

[Non-text portions of this message have been removed]

2075. RE: [mkars80] Re: MFJ 259B ANALYSER REPAIR

Yahoo group: mkars80
Date: 2011-05-06 18:40:44 UTC
From: Andrew (Laptop Jersey)
Topic: 2047 Message: 2075

Hi W & S are the recommended agent for MFJ, so try that route.

BR

Andrew G8UUG

From: mkars80@... [mailto:mkars80@...] On Behalf
Of manxmat@...
Sent: 06 May 2011 15:53
To: mkars80@...
Subject: [mkars80] Re: MFJ 259B ANALYSER REPAIR

Hi Glyn

I have tried contacting ML&S last year to ask if we can purchase a new PCB (antenna connectors etc) for the IOMARS unit - I initially had a resposne & was told it would be a few weeks before they could give us a price as it had to be sent from the States.

After sending numerous emails, I gave up, I have also had zero emails from directly emailing MFJ themselves.

- Good luck with finding someone !!!!

In the meantime - I built one of these for my own use - I can't fault it at all, great piece of kit and excellent value for money!!

some info here:-
http://www.spirat.com.au/vk5zvs/pic11.htm

can order the kit here:-
http://www.scarc.org.au/index.php?option=com_content
<http://www.scarc.org.au/index.php?option=com_content&view=article&id=47&Itemid=27> &view=article&id=47&Itemid=27

Took a few hours over a couple of evenings to build the unit, I had issues with 'oscillator kaput' message on the LCD and eventually traced my problem to the centre (common) pin on the rotary switch had not actually been connected to anything !!!

This kit does up to 30mhz, however in the first link, the author of this site has added another inductor and changed a couple of component values which give 6m coverage as well.

There is also another firmware mod which allows you to hook up to a serial port on a PC and run some software to create XLS type spreadsheet files so you can sweep the antenna and create graphs of SWR/Z Freq etc - all in all a great little bit of kit!!

Matty

MD0MAN

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
"fredog" <glynmaggs@...> wrote:
>
> Sorry guys as this is a bit off topic but does anyone know of a repairer
for my MFJ 259B in the UK?
> 73 Glyn G3ZSV
>

[Non-text portions of this message have been removed]

2076. Spares

Yahoo group: mkars80
Date: 2011-06-02 21:58:41 UTC
From: wizzbit_99
Topic: 2076 Message: 2076

Hi.
Is it possible to buy spares please?

I need 1 x Polyvaicon
2 x m 2.5 screws
+ the 2 nuts

I did try a polyvaricon off eBay but the screws didn't seem to be correct for it thus I damaged it.

So I'm in need of the 'original'

If so please let me know how.

Cheers

Mark

2077. Re casing the MKARS 80

Yahoo group: mkars80
Date: 2011-06-03 11:48:21 UTC
From: exjuggie
Topic: 2077 Message: 2077

I'd like to put mine in a more conventional case, very much appreciate any comments from anyone who has done so ....

cheers

Nick

2078. RE: [mkars80] Re casing the MKARS 80

Yahoo group: mkars80
Date: 2011-06-03 12:10:02 UTC
From: John Martin
Topic: 2077 Message: 2078

Trying to shoehorn the board into the supplied case is proving to be a bit of a pain so an alternative might be better.

Let me know what case you get if you don't mind.

John

G8XLB

From: mkars80@... [mailto:mkars80@...] On Behalf Of exjuggie
Sent: 03 June 2011 12:48
To: mkars80@...
Subject: [mkars80] Re casing the MKARS 80

I'd like to put mine in a more conventional case, very much appreciate any comments from anyone who has done so ....

cheers

Nick

[Non-text portions of this message have been removed]

2079. Re: Re casing the MKARS 80

Yahoo group: mkars80
Date: 2011-06-03 18:00:21 UTC
From: Phil
Topic: 2077 Message: 2079

Hi Nick

I am in the process of fitting mine into a Maplins Eddystone diecast case using the lid as the base,done a similar process with the Digital SWR meter

Phil
G7GGS

--- In mkars80@..., "exjuggie" <juggie@...> wrote:
>
> I'd like to put mine in a more conventional case, very much appreciate any comments from anyone who has done so ....
>
> cheers
>
> Nick
>

2080. Re: [mkars80] Spares

Yahoo group: mkars80
Date: 2011-06-03 20:13:51 UTC
From: Steve Drury
Topic: 2076 Message: 2080

Evening Mark,

Was the Polyvaricon damaged whilst building the MKARS80 or do you need
one for another project? The screws I supply are 2.5mm but the
Polyvaricon threads are 2.6mm, they are a little loose but seem to hold OK.

Steve G6ALU

On 02/06/2011 22:58, wizzbit_99 wrote:
> Hi.
> Is it possible to buy spares please?
>
> I need 1 x Polyvaicon
> 2 x m 2.5 screws
> + the 2 nuts
>
> I did try a polyvaricon off eBay but the screws didn't seem to be correct for it thus I
damaged it.
>
> So I'm in need of the 'original'
>
> If so please let me know how.
>
> Cheers
>
> Mark
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1382 / Virus Database: 1511/3675 - Release Date: 06/02/11
>
>

2081. Re: Spares

Yahoo group: mkars80
Date: 2011-06-03 21:30:41 UTC
From: wizzbit_99
Topic: 2076 Message: 2081

Good Evening Steve....

Yes it was damaged whilst building the kit. Just for the record though it was totally my fault, whilst screwing in the screws I missed the hole and it bent the leads putting excess force on the spindle. Which damaged the vein.

The reason why I want the screws also is basically to start of fresh. So then I KNOW the screws are the correct ones.

Mark

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Evening Mark,
>
> Was the Polyvaricon damaged whilst building the MKARS80 or do you need
> one for another project? The screws I supply are 2.5mm but the
> Polyvaricon threads are 2.6mm, they are a little loose but seem to hold OK.
>
> Steve G6ALU
>
>
> On 02/06/2011 22:58, wizzbit_99 wrote:
> > Hi.
> > Is it possible to buy spares please?
> >
> > I need 1 x Polyvaicon
> > 2 x m 2.5 screws
> > + the 2 nuts
> >
> > I did try a polyvaricon off eBay but the screws didn't seem to be correct for it thus I damaged it.
> >
> > So I'm in need of the 'original'
> >
> > If so please let me know how.
> >
> > Cheers
> >
> > Mark
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> > Yahoo! Groups Links
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1382 / Virus Database: 1511/3675 - Release Date: 06/02/11
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> >
>

2082. Re: [mkars80] Re: Spares

Yahoo group: mkars80
Date: 2011-06-04 09:03:19 UTC
From: Steve Drury
Topic: 2076 Message: 2082

Mark,

Can you give me your address please and we will send you another +
screws. Best to send off group to "steve at radio-kits.co.uk".

Regards,
Steve G6ALU

On 03/06/2011 22:30, wizzbit_99 wrote:
> Good Evening Steve....
>
> Yes it was damaged whilst building the kit. Just for the record though it was totally my fault, whilst screwing in the screws I missed the hole and it bent the leads putting excess force on the spindle. Which damaged the vein.
>
> The reason why I want the screws also is basically to start of fresh. So then I KNOW the screws are the correct ones.
>
>
> Mark
>
>
> --- In mkars80@..., Steve Drury<g6alu@...> wrote:
>> Evening Mark,
>>
>> Was the Polyvaricon damaged whilst building the MKARS80 or do you need
>> one for another project? The screws I supply are 2.5mm but the
>> Polyvaricon threads are 2.6mm, they are a little loose but seem to hold OK.
>>
>> Steve G6ALU
>>
>>
>> On 02/06/2011 22:58, wizzbit_99 wrote:
>>> Hi.
>>> Is it possible to buy spares please?
>>>
>>> I need 1 x Polyvaicon
>>> 2 x m 2.5 screws
>>> + the 2 nuts
>>>
>>> I did try a polyvaricon off eBay but the screws didn't seem to be correct for it thus I damaged it.
>>>
>>> So I'm in need of the 'original'
>>>
>>> If so please let me know how.

>>>
>>> Cheers
>>>
>>> Mark
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>>> No virus found in this message.
>>> Checked by AVG - www.avg.com
>>> Version: 10.0.1382 / Virus Database: 1511/3675 - Release Date: 06/02/11
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1382 / Virus Database: 1511/3678 - Release Date: 06/03/11
>
>

2083. Re: [mkars80] Re casing the MKARS 80

Yahoo group: mkars80
Date: 2011-06-04 11:00:39 UTC
From: Steve Bell
Topic: 2077 Message: 2083

I dithered for ages looking for the ideal case for a modified MKARS80 with no success, and ended up completing as a standard build in the supplied case. I'm thinking of building another including various mods, but in a custom case made from PCB material. These links give a good idea what's achievable and how.

http://k7qo.net/pcb_construction.html

http://k7qo.net/enclosure_tutorial.html

I've seen previous posts giving advice or warnings regarding long lead lengths.

Steve M0SVB

On 3 Jun 2011, at 12:48, exjuggie wrote:

> I'd like to put mine in a more conventional case, very much appreciate any comments from anyone who has done so ....
>
> cheers
>
> Nick
>

2084. RX/TX freq is off

Yahoo group: mkars80
Date: 2011-06-04 15:34:08 UTC
From: stuartscott171
Topic: 2084 Message: 2084

Have built the kit and setup as per instructions, including 10MHz BFO checked with oscilloscope.

The problem is RX and TX are approx 150Hz higher than was is displayed on the screen. Any suggestions

2085. Re: [mkars80] RX/TX freq is off

Yahoo group: mkars80
Date: 2011-06-05 00:06:20 UTC
From: Steve Drury
Topic: 2084 Message: 2085

Hi,

Do you have access to a frequency counter? If so adjust the BFO for
10.000MHz - most oscilloscopes don't have sufficient accuracy to set to
10.000MHz.

If you don't have access to a frequency counter make a small adjustment
to the BFO, check the frequency display using a known accurate source
and repeat until the display reads correctly.

Let us know how you get on.

Steve G6ALU

On 04/06/2011 16:34, stuartscott171 wrote:
> Have built the kit and setup as per instructions, including 10MHz BFO checked with
oscilloscope.
>
> The problem is RX and TX are approx 150Hz higher than was is displayed on the screen. Any
suggestions
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1382 / Virus Database: 1511/3679 - Release Date: 06/03/11
>
>

2086. Re: Spares

Yahoo group: mkars80
Date: 2011-06-11 19:28:44 UTC
From: wizzbit_99
Topic: 2076 Message: 2086

Received the parts many thanks!

All fitted, running great!

Now to fit it in the case!

Mark

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Mark,
>
> Can you give me your address please and we will send you another +
> screws. Best to send off group to "steve at radio-kits.co.uk".
>
> Regards,
> Steve G6ALU
>
> On 03/06/2011 22:30, wizzbit_99 wrote:
> > Good Evening Steve....
> >
> > Yes it was damaged whilst building the kit. Just for the record though it was totally my fault, whilst screwing in the screws I missed the hole and it bent the leads putting excess force on the spindle. Which damaged the vein.
> >
> > The reason why I want the screws also is basically to start of fresh. So then I KNOW the screws are the correct ones.
> >
> >
> > Mark
> >
> >
> > --- In mkars80@yahoogroups.co.uk, Steve Drury<g6alu@> wrote:
> >> Evening Mark,
> >>
> >> Was the Polyvaricon damaged whilst building the MKARS80 or do you need
> >> one for another project? The screws I supply are 2.5mm but the
> >> Polyvaricon threads are 2.6mm, they are a little loose but seem to hold OK.
> >>
> >> Steve G6ALU
> >>
> >>
> >> On 02/06/2011 22:58, wizzbit_99 wrote:
> >>> Hi.
> >>> Is it possible to buy spares please?
> >>>

> >>> I need 1 x Polyvaicon
> >>> 2 x m 2.5 screws
> >>> + the 2 nuts
> >>>
> >>> I did try a polyvaricon off eBay but the screws didn't seem to be correct for it thus I damaged it.
> >>>
> >>> So I'm in need of the 'original'
> >>>
> >>> If so please let me know how.
> >>>
> >>> Cheers
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> >>> Mark
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> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 10.0.1382 / Virus Database: 1511/3675 - Release Date: 06/02/11
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> > > Checked by AVG - www.avg.com
> > > Version: 10.0.1382 / Virus Database: 1511/3678 - Release Date: 06/03/11
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2087. Mixer transformers - Securing?

Yahoo group: mkars80
Date: 2011-06-11 20:21:51 UTC
From: mikewogden
Topic: 2087 Message: 2087

Has anyone any tips on how to physically secure the three mixer transformers?

They seem very delicate and loose when held only by their windings.

Your comments please.

Mike - g4KXQ

2088. Re: [mkars80] Mixer transformers - Securing?

Yahoo group: mkars80
Date: 2011-06-11 20:26:16 UTC
From: john boast
Topic: 2087 Message: 2088

Hot glue

From: mikewogden <mikewogden@yahoo.com>
To: mkars80@...
Sent: Sat, 11 June, 2011 21:21:51
Subject: [mkars80] Mixer transformers - Securing?

Has anyone any tips on how to physically secure the three mixer transformers?

They seem very delicate and loose when held only by their windings.

Your comments please.

Mike - g4KXQ

[Non-text portions of this message have been removed]

2089. Re: [mkars80] Mixer transformers - Securing?

Yahoo group: mkars80
Date: 2011-06-11 20:51:07 UTC
From: Ken Pendarvis
Topic: 2087 Message: 2089

I wouldn't use hot glue until you make certain that
the rig is working FB and all is well.

Actually, I don't use hot glue at all, just the wires themselves.
After the transformers are seated and soldered,
I reheat the joint and use a pair of hemostats (locking ttweezers) to
pull all the wires wire snug. I've used this method in all my QRP rigs and never
had a problem.
73, Ken AD6KA/5R8GQ
----- Original Message -----
From: mikewogden
To: mkars80@...
Sent: Saturday, June 11, 2011 1:21 PM
Subject: [mkars80] Mixer transformers - Securing?

Has anyone any tips on how to physically secure the three mixer transformers?

They seem very delicate and loose when held only by their windings.

Your comments please.

Mike - g4KXQ

[Non-text portions of this message have been removed]

2090. Re: [mkars80] Mixer transformers - Securing?

Yahoo group: mkars80
Date: 2011-06-11 21:09:03 UTC
From: Steve Drury
Topic: 2087 Message: 2090

I use a small amount of silicon glue - the stuff scrap-bookers use.
Don't use bathroom sealer as that's corrosive.

I have also seen double sided sticky tape used.

Steve G6ALU

On 11/06/2011 21:51, Ken Pendarvis wrote:
> I wouldn't use hot glue until you make certain that
> the rig is working FB and all is well.
>
> Actually, I don't use hot glue at all, just the wires themselves.
> After the transformers are seated and soldered,
> I reheat the joint and use a pair of hemostats (locking ttweezers) to
> pull all the wires wire snug. I've used this method in all my QRP rigs and never
> had a problem.
> 73, Ken AD6KA/5R8GQ
> ----- Original Message -----
> From: mikewogden
> To: mkars80@...
> Sent: Saturday, June 11, 2011 1:21 PM
> Subject: [mkars80] Mixer transformers - Securing?
>
>
>
> Has anyone any tips on how to physically secure the three mixer transformers?
>
> They seem very delicate and loose when held only by their windings.
>
> Your comments please.
>
> Mike - g4KXQ
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1382 / Virus Database: 1513/3695 - Release Date: 06/11/11
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>

2091. Just to say hello

Yahoo group: mkars80
Date: 2011-06-13 11:57:54 UTC
From: Philip
Topic: 2091 Message: 2091

Hi folks, new "old kid" on the block...
Been licenced for a good while G4JVF.
Lost interest in ham radio as most folk started using comercial rigs and being an avid tinkerer and builder, found less and less to talk about.

Anyhoo, finding the SDR Softrock kits re fired my interest and I've built quite a few now.

Had seen this MKARS80 on the various websites and luckily for me, I bumped into one at yesterdays radio rally at Alfreton M1 Junc 28.
Tried to resist but you know how it is :)

Anyhoo, what a great kit....
Got all the components fitted yesterday afternoon/evening and I've left the coils for todays task as I didn't want to place them earlier and risk damaging them...

Really excited to get this thing up and running.
No "proper" 80M aerial as yet but I do have a tuned loop so I can at least get started..

Congrats to the folk who designed and packed this quality kit (not sure who's who yet) and thanks for all the info posted on this Yahoo group....

Right, of to wind some coils..

Regards
Philip G4JVF

2092. Re: Just to say hello

Yahoo group: mkars80
Date: 2011-06-13 12:24:44 UTC
From: John Housego
Topic: 2091 Message: 2092

Hello Philip,

Welcome to the group, I am sure you will love the MKARS80 its a fantastic little home brew rig. I have had mine for a number of years and its used regularly.

John (M0TIF) ...- .-

[Non-text portions of this message have been removed]

2093. Re: Just to say hello

Yahoo group: mkars80
Date: 2011-06-13 12:35:51 UTC
From: Trygve Sjothun
Topic: 2091 Message: 2093

Hi Phillip,

I look forward to reading anything that you have to say about building the MKARS80. I have yet to start mine but I am looking forward to it a great deal. Best run for now.

73,

Tryg (EI7CLB)

[Non-text portions of this message have been removed]

2094. Re: [mkars80] Just to say hello

Yahoo group: mkars80
Date: 2011-06-13 12:45:42 UTC
From: g6alu@tiscali.co.uk
Topic: 2091 Message: 2094

Philip,

When soldering the coils into the PCB make sure you either use a very hot soldering iron or scrape the enamel from the wires before fitting - poor joints on the mixer transformers are the most common reason for the radio not working at turn on.

Best of luck,

Steve G6ALU

>----Original Message----

>From: pcteee@...

>Date: 13/06/2011 12:57

>To: <mkars80@...>

>Subj: [mkars80] Just to say hello

>

>Hi folks, new "old kid" on the block...

>Been licenced for a good while G4JVF.

>Lost interest in ham radio as most folk started using comercial rigs and being an avid tinkerer and builder, found less and less to talk about.

>

>Anyhoo, finding the SDR Softrock kits re fired my interest and I've built quite a few now.

>

>Had seen this MKARS80 on the various websites and luckily for me, I bumped into one at yesterdays radio rally at Alfreton M1 Junc 28.

>Tried to resist but you know how it is :)

>

>Anyhoo, what a great kit....

>Got all the components fitted yesterday afternoon/evening and I've left the coils for todays task as I didn't want to place them earlier and risk damaging them...

>

>Really excited to get this thing up and running.

>No "proper" 80M aerial as yet but I do have a tuned loop so I can at least get started..

>

>Congrats to the folk who designed and packed this quality kit (not sure who's who yet) and thanks for all the info posted on this Yahoo group....

>

>Right, of to wind some coils..

>

>Regards

>Philip G4JVF

>

>

>

>----------

>

>Yahoo! Groups Links

>

> http://uk.groups.yahoo.com/group/mkars80/
>

required)

>
uk

>

> mkars80-unsubscribe@...

>

> http://uk.docs.yahoo.com/info/terms.html
>

>

2095. RE: [mkars80] Just to say hello

Yahoo group: mkars80
Date: 2011-06-13 15:06:45 UTC
From: John Martin
Topic: 2091 Message: 2095

Ah could this be the reason I’m not getting any audio at the initial testing stage as detailed on page 11. I say not getting anything, I’m getting a very low level of background hiss that is barely audible but nothing else.

All voltages are as required. This is the first rig I have ever built.

John

G8XLB

From: mkars80@... [mailto:mkars80@...] On Behalf Of g6alu@...
Sent: 13 June 2011 13:46
To: mkars80@...
Subject: Re: [mkars80] Just to say hello

Philip,

When soldering the coils into the PCB make sure you either use a very
hot soldering iron or scrape the enamel from the wires before fitting -
poor joints on the mixer transformers are the most common reason for
the radio not working at turn on.

Best of luck,

Steve G6ALU

>----Original Message----

>From: pcteee@... <mailto:pcteee%40googlemail.com>

>Date: 13/06/2011 12:57

>To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk> >

>Subj: [mkars80] Just to say hello

>

>Hi folks, new "old kid" on the block...

>Been licenced for a good while G4JVF.

>Lost interest in ham radio as most folk started using comercial rigs
and being an avid tinkerer and builder, found less and less to talk
about.

>

>Anyhoo, finding the SDR Softrock kits re fired my interest and I've
built quite a few now.

>

>Had seen this MKARS80 on the various websites and luckily for me, I bumped into one at yesterdays radio rally at Alfreton M1 Junc 28.

>Tried to resist but you know how it is :)

>

>Anyhoo, what a great kit....

>Got all the components fitted yesterday afternoon/evening and I've left the coils for todays task as I didn't want to place them earlier and risk damaging them...

>

>Really excited to get this thing up and running.

>No "proper" 80M aerial as yet but I do have a tuned loop so I can at least get started..

>

>Congrats to the folk who designed and packed this quality kit (not sure who's who yet) and thanks for all the info posted on this Yahoo group....

>

>Right, of to wind some coils..

>

>Regards

>Philip G4JVF

>

>

>

>----------

>

>Yahoo! Groups Links

>

> http://uk.groups.yahoo.com/group/mkars80/
>

required)

>
uk

>

> mkars80-unsubscribe@... <mailto:mkars80-unsubscribe%40yahoogroups.co.uk>

>

> http://uk.docs.yahoo.com/info/terms.html
>

>

[Non-text portions of this message have been removed]

2096. Re: [mkars80] Just to say hello

Yahoo group: mkars80
Date: 2011-06-13 19:23:39 UTC
From: Steve Drury
Topic: 2091 Message: 2096

Hello John,

This would be a typical symptom - I assume you have a display with a
frequency readout?

Steve G6ALU

On 13/06/2011 16:06, John Martin wrote:
> Ah could this be the reason I’m not getting any audio at the initial testing stage as detailed on page 11. I say not getting anything, I’m getting a very low level of background hiss that is barely audible but nothing else.
>
> All voltages are as required. This is the first rig I have ever built.
>
>
>
> John
>
> G8XLB
>
>
>
> From: mkars80@... [mailto:mkars80@...] On Behalf Of g6alu@...
> Sent: 13 June 2011 13:46
> To: mkars80@...
> Subject: Re: [mkars80] Just to say hello
>
>
>
>
>
>
> Philip,
>
> When soldering the coils into the PCB make sure you either use a very
> hot soldering iron or scrape the enamel from the wires before fitting -
> poor joints on the mixer transformers are the most common reason for
> the radio not working at turn on.
>
> Best of luck,
>
> Steve G6ALU
>
>> ----Original Message----
>> From: pcteee@...<mailto:pcteee%40googlemail.com>
>> Date: 13/06/2011 12:57
>> To:<mkars80@...<mailto:mkars80%40yahoogroups.co.uk> >

>> Subj: [mkars80] Just to say hello
>> Hi folks, new "old kid" on the block...
>> Been licenced for a good while G4JVF.
>> Lost interest in ham radio as most folk started using comercial rigs
> and being an avid tinkerer and builder, found less and less to talk
> about.
>
>> Anyhoo, finding the SDR Softrock kits re fired my interest and I've
> built quite a few now.
>
>> Had seen this MKARS80 on the various websites and luckily for me, I
> bumped into one at yesterdays radio rally at Alfreton M1 Junc 28.
>
>> Tried to resist but you know how it is :)
>> Anyhoo, what a great kit....
>> Got all the components fitted yesterday afternoon/evening and I've
> left the coils for todays task as I didn't want to place them earlier
> and risk damaging them...
>
>> Really excited to get this thing up and running.
>> No "proper" 80M aerial as yet but I do have a tuned loop so I can at
> least get started..
>
>> Congrats to the folk who designed and packed this quality kit (not
> sure who's who yet) and thanks for all the info posted on this Yahoo
> group....
>
>> Right, of to wind some coils..
>> Regards
>> Philip G4JVF
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>> mkars80-unsubscribe@...<mailto:mkars80-unsubscribe%40yahoogroups.co.uk>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1382 / Virus Database: 1513/3698 - Release Date: 06/12/11
>
>
>

2097. WooooHoooo! the receiver works...

Yahoo group: mkars80
Date: 2011-06-13 20:35:26 UTC
From: Philip
Topic: 2097 Message: 2097

Got the coils wound and fitted today, drilled the case as well...
Anyhoo, can't test the TX because I'm waiting for some bigger resistors to make a better dummy load.

Ive left out the PA transistor for now but the receiver popped into life first try so I'm pleased I didn't make any mistakes so far.
Display is nice and makes it a pleasure to set up the VFO.
The "huff and puff" is doing it's thing...
Set the BFO to 10MHz on my homebrew frequency counter.
Not a terribly accurate bit of kit that counter but near enough to get up and running.

Well, just enjoying listening to some SSB and CW on 80, rig seems stable and sensitive so a very happy bunny :)

Fits in the case nicely so I must be getting better at drilling holes in the right places..

Need to find a slow motion drive for the VFO if such things can be found these days.

More later when I can fire up the TX...

Regards
Philip G4JVF

2098. Re: [mkars80] WooooHoooo! the receiver works...

Yahoo group: mkars80
Date: 2011-06-13 20:54:38 UTC
From: Steve Drury
Topic: 2097 Message: 2098

Slow motion drive can be found here:

http://cgi.ebay.co.uk/6020-2-6M6-10-1-Ball-Drive-item-581-/290446043189?pt=UK_ConsumerElectronics_SpecialistRadioEquipment_SM&hash=item439feee835

This will directly couple requiring just two small screws into the top
panel which can be hidden by a large knob.

Steve G6ALU

On 13/06/2011 21:35, Philip wrote:
> Got the coils wound and fitted today, drilled the case as well...
> Anyhoo, can't test the TX because I'm waiting for some bigger resistors to make a better dummy load.
>
> Ive left out the PA transistor for now but the receiver popped into life first try so I'm pleased I didn't make any mistakes so far.
> Display is nice and makes it a pleasure to set up the VFO.
> The "huff and puff" is doing it's thing...
> Set the BFO to 10MHz on my homebrew frequency counter.
> Not a terribly accurate bit of kit that counter but near enough to get up and running.
>
> Well, just enjoying listening to some SSB and CW on 80, rig seems stable and sensitive so a very happy bunny :)
>
> Fits in the case nicely so I must be getting better at drilling holes in the right places..
>
> Need to find a slow motion drive for the VFO if such things can be found these days.
>
> More later when I can fire up the TX...
>
> Regards
> Philip G4JVF
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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> No virus found in this message.
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> Version: 10.0.1382 / Virus Database: 1513/3701 - Release Date: 06/13/11
>
>

2099. Re: WooooHoooo! the receiver works...

Yahoo group: mkars80
Date: 2011-06-13 21:19:21 UTC
From: Philip
Topic: 2097 Message: 2099

Wonderful...
Many thanks Steve, just ordered one :)

Been sat out in the back yard with the receiver running on my homebrew tuned 80M loop...
The two were made for each other, some really good signals picked up.

Listening to 80 watching the sun go down....can't be bad..

Put three pictures in my photo album on here (G4JVF)
Must get the file out and fine tweak the rectangular hole..
Batteries look to be needing a charge as well..

Seriously good fun

Regards
Philip G4JVF

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Slow motion drive can be found here:
>
> http://cgi.ebay.co.uk/6020-2-6M6-10-1-Ball-Drive-item-581-/290446043189?pt=UK_ConsumerElectronics_SpecialistRadioEquipment_SM&hash=item439feee835
>
> This will directly couple requiring just two small screws into the top
> panel which can be hidden by a large knob.
>
> Steve G6ALU
>
> On 13/06/2011 21:35, Philip wrote:
> > Got the coils wound and fitted today, drilled the case as well...
> > Anyhoo, can't test the TX because I'm waiting for some bigger resistors to make a better dummy load.
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> > Ive left out the PA transistor for now but the receiver popped into life first try so I'm pleased I didn't make any mistakes so far.
> > Display is nice and makes it a pleasure to set up the VFO.
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> > Well, just enjoying listening to some SSB and CW on 80, rig seems stable and sensitive so a very happy bunny :)
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> > Fits in the case nicely so I must be getting better at drilling holes in the right places..

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> > Need to find a slow motion drive for the VFO if such things can be found these days.
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> >
> >
>

2100. RE: [mkars80] Just to say hello

Yahoo group: mkars80
Date: 2011-06-14 07:32:15 UTC
From: John Martin
Topic: 2091 Message: 2100

Hi Steve,

Yes as the voltages were as they should be I went ahead and set up the display which works fine and aligned ok. I was waiting to see a mate that has a frequency counter I can borrow for a few minutes to set up the BFO, however as it is now likely the transformers may have a problem I had better go back and concentrate on them rather than going any further.

It’s going to be a week or so before I can do any more now anyway.

Regards,

John

From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf Of Steve Drury
Sent: 13 June 2011 20:24
To: mkars80@...
Subject: Re: [mkars80] Just to say hello

Hello John,

This would be a typical symptom - I assume you have a display with a
frequency readout?

Steve G6ALU

On 13/06/2011 16:06, John Martin wrote:
> Ah could this be the reason I’m not getting any audio at the initial testing stage as detailed on page 11. I say not getting anything, I’m getting a very low level of background hiss that is barely audible but nothing else.
>
> All voltages are as required. This is the first rig I have ever built.
>
>
>
> John
>
> G8XLB
>
>
>
> From: mkars80@yahoogroups.co.uk <mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@....uk <mailto:mkars80%40yahoogroups.co.uk>] On Behalf Of g6alu@...
<mailto:g6alu%40tiscali.co.uk>
> Sent: 13 June 2011 13:46
> To: mkars80@yahoogroups.co.uk <mailto:mkars80%40yahoogroups.co.uk>
> Subject: Re: [mkars80] Just to say hello
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> Philip,
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> When soldering the coils into the PCB make sure you either use a very
> hot soldering iron or scrape the enamel from the wires before fitting -
> poor joints on the mixer transformers are the most common reason for
> the radio not working at turn on.
>
> Best of luck,
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> Steve G6ALU
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>> From: pcteee@... <mailto:pcteee%40googlemail.com> <mailto:pcteee%40googlemail.com>
>> Date: 13/06/2011 12:57
>> To:<mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
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>> Subj: [mkars80] Just to say hello
>> Hi folks, new "old kid" on the block...
>> Been licenced for a good while G4JVF.
>> Lost interest in ham radio as most folk started using comercial rigs
> and being an avid tinkerer and builder, found less and less to talk
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>> Anyhoo, finding the SDR Softrock kits re fired my interest and I've
> built quite a few now.
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>> Tried to resist but you know how it is :)
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>> Got all the components fitted yesterday afternoon/evening and I've
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>> No "proper" 80M aerial as yet but I do have a tuned loop so I can at
> least get started..
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>> Congrats to the folk who designed and packed this quality kit (not
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[Non-text portions of this message have been removed]

2101. Re: WooooHoooo! the receiver works...

Yahoo group: mkars80
Date: 2011-06-14 16:20:38 UTC
From: Philip
Topic: 2097 Message: 2101

Bit more done today whilst I'm waiting for my dummy load resistors to turn up.
Printed a card front panel with a few personalised bits.
Cut a perspex front to cover the card...
Pictures in album

Fiddly but fun :)

Regards
Philip G4JVF

--- In mkars80@..., "Philip" <pcteee@...> wrote:
>
> Wonderful...
> Many thanks Steve, just ordered one :)
>
> Been sat out in the back yard with the receiver running on my homebrew tuned 80M loop...
> The two were made for each other, some really good signals picked up.
>
> Listening to 80 watching the sun go down....can't be bad..
>
> Put three pictures in my photo album on here (G4JVF)
> Must get the file out and fine tweak the rectangular hole..
> Batteries look to be needing a charge as well..
>
> Seriously good fun
>
> Regards
> Philip G4JVF
>
> --- In mkars80@..., Steve Drury <g6alu@> wrote:
> >
> > Slow motion drive can be found here:
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> > http://cgi.ebay.co.uk/6020-2-6M6-10-1-Ball-Drive-item-581-/290446043189?pt=UK_Consumer Electronics_SpecialistRadioEquipment_SM&hash=item439feee835
> >
> > This will directly couple requiring just two small screws into the top
> > panel which can be hidden by a large knob.
> >
> > Steve G6ALU
> >
> > On 13/06/2011 21:35, Philip wrote:
> > > Got the coils wound and fitted today, drilled the case as well...
> > > Anyhoo, can't test the TX because I'm waiting for some bigger resistors to make a better dummy load.
> > >

> > > Ive left out the PA transistor for now but the receiver popped into life first try so I'm pleased I didn't make any mistakes so far.
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>

2102. Another convert just signing in.

Yahoo group: mkars80
Date: 2011-06-14 16:38:59 UTC
From: tasmod
Topic: 2102 Message: 2102

Hi all,
Bought a s/h part completed kit at Alfreton.

Intend to continue the build and add the varicap tuning mod along with a standard type layout.

Will check in later when time pressure eases.

Rob G4NQX & G8VLQ

2103. Re: Another convert just signing in.

Yahoo group: mkars80
Date: 2011-06-14 16:44:58 UTC
From: Philip
Topic: 2102 Message: 2103

Good luck with it Rob...

I got mine on sunday at Alfreton as well...
Busy car park :)

Regards
Philip G4JVF

--- In mkars80@..., "tasmod" <tasmod@...> wrote:
>
> Hi all,
> Bought a s/h part completed kit at Alfreton.
>
> Intend to continue the build and add the varicap tuning mod along with a standard type layout.
>
> Will check in later when time pressure eases.
>
> Rob G4NQX & G8VLQ
>

2104. Re: WooooHoooo! the receiver works...

Yahoo group: mkars80
Date: 2011-06-15 20:05:40 UTC
From: Philip
Topic: 2097 Message: 2104

The slow motion drive that Steve linked me to turned up today.
Very fast posting which is good..

Fitted it straight onto the poly's metal shaft and held it's collar to the case with two mini self tappers.
Cut of about 5mm of the shaft and cut out a shape in the perspex cover to accomodate the collar.
The tuning knob hides everything nicely..

Needed to make a tool to tighten the two allen grub screws so I snapped off the long end of an "L" shaped allen key and araldited it into a bit of brush shaft so I could reach into the space between the front and the printed board.
This reached nicely and I must say, the difference is amazing.
Nice solid feel to the tuning knob and I can now resolve SSB stations without using the fine tune...

Will be doing a 10 turn pot mod at some point but that's in the future.
My dummy load resistors turned up today so next job is making that up so I can fire up the TX...

Photos in my album (G4JVF)

Regards
Philip G4JVF

--- In mkars80@..., "Philip" <pcteee@...> wrote:
>
> Bit more done today whilst I'm waiting for my dummy load resistors to turn up.
> Printed a card front panel with a few personalised bits.
> Cut a perspex front to cover the card...
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> Regards
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> --- In mkars80@..., "Philip" <pcteee@> wrote:
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> > Wonderful...
> > Many thanks Steve, just ordered one :)
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> > Been sat out in the back yard with the receiver running on my homebrew tuned 80M loop...
> > The two were made for each other, some really good signals picked up.

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> > Listening to 80 watching the sun go down....can't be bad..
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> > Put three pictures in my photo album on here (G4JVF)
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> > --- In mkars80@..., Steve Drury <g6alu@> wrote:
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> > >
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>

2105. First audio

Yahoo group: mkars80
Date: 2011-06-16 07:48:36 UTC
From: tasmod
Topic: 2105 Message: 2105

Finished the final board details of the kit and then tried to fire it up.

Minor problem for a few head scratching minutes, I had not fitted the output sockets and the DC standalone ground pin isn't connected until the socket is fitted. No ground , no power !!

Once that sorted a few moments peaking a few things and audio present as well as a couple of signals on a short length of wire as antenna.
Pleased with that :-) Just the display to fit and test.

Next I'm looking at making up the pa0rcl varactor board tuning mod. I have the BB112 diode, choke and ten turn pot.

Looking forward to getting it in a better finish. The case is somewhat of a headache, the good ones cost as much as the kit!!

Rob G4NQX

2106. Case etc.

Yahoo group: mkars80
Date: 2011-06-16 07:50:38 UTC
From: tasmod
Topic: 2106 Message: 2106

For those interested in a different approach to casing the kit, try a search for PA0RCL 's website. His designs and ideas are very good.

2107. Re: WooooHoooo! the receiver works...

Yahoo group: mkars80
Date: 2011-06-16 14:16:03 UTC
From: Philip
Topic: 2097 Message: 2107

Another few things done today..
Fitted a small speaker on the back panel.
Fitted a 12V 40mm fan with a switch which with a 220 ohm resistor
in series, spins nicely without a high speed whine.

Drilled two vent holes either end at the top, one near the PA transistor
so I get a decent airflow for the fan.
Mesh is the stuff Halfords sell for car body repairs and it's araldited in.

Next job is a handle which will swing back as a support so I can operate
the rig with it at an angle rather than layed down or stood up.

Then, on to firing up the transmitter....:)

Regards
Philip G4JVF

2108. Bit of help needed with TX setup please

Yahoo group: mkars80
Date: 2011-06-16 18:16:12 UTC
From: Philip
Topic: 2108 Message: 2108

OK...
Decided to fire up the TX for a setup this afternoon..

Plugged in a 50 ohm dummy load with a simple diode RF probe built on.
Using a shorted jack (no mic) to act as PTT.
Standing current on TX was 230mA and I adjusted it to 280mA
using R2.

Connected the RF probe output to my digital voltmeter and got a reading
420mV....
Next I tweaked R59 to minimum dip and tweaked C103 to dip even more.
Moved back and forth from one to the other..

Problem is, at the lowest carrier reading I'm still getting a reading of 366mV not zero.
It seems that both R59 and C103 are at the end of their travel as far
as I can see..

Plugged in a mic and I can whistle it up to about 14 volts on the meter
so I'm getting four or more watts out into the dummy load.

Question is, what is the most likely thing wrong preventing me nulling
the carrier completely?
Not skilled in things SSB as I've never used it before so any help
would be gratefully accepted guys...

PSU is at 12.5V stabilised with plenty of capacity.

Regards
Philip G4JVF

2109. Re: Bit of help needed with TX setup please

Yahoo group: mkars80
Date: 2011-06-16 20:14:57 UTC
From: Philip
Topic: 2108 Message: 2109

Had another go at this and I may be chasing red herrings using the
thrown together RF probe on the dummy load...

Turned the 25 turn pot to mid way then tweaked C103 then back to the pot.
Got the reading down to about 60mV so that's an improvement.

Anyhoo, put the meter to one side and fired up my SDR receiver on
80 meters...
Still with the MKARS into the dummy load, I could only just make
out a tiny trace of carrier on the SDR and that's with both machines
stood on the same bench..
Plugged in the mic and the audio sounded good through the SDR and the
waterfall trace showed a clean tight signal..
So, I may be OK after all...
What I did find was that adjusting C103 was tricky when using a metal
trimmer tool..I think C103 is in the right way round...

Mod LED is working as expected so I'll try on air at some point to
get a report.

Don't know if it's normal but the driver transistor Q5 gets quite hot
in my machine but then I have had it running for longish periods
whilst messing with the balance issue..

Regards
Philip G4JVF

--- In mkars80@..., "Philip" <pcteee@...> wrote:
>
> OK...
> Decided to fire up the TX for a setup this afternoon..
>
> Plugged in a 50 ohm dummy load with a simple diode RF probe built on.
> Using a shorted jack (no mic) to act as PTT.
> Standing current on TX was 230mA and I adjusted it to 280mA
> using R2.
>
> Connected the RF probe output to my digital voltmeter and got a reading
> 420mV....
> Next I tweaked R59 to minimum dip and tweaked C103 to dip even more.
> Moved back and forth from one to the other..
>
> Problem is, at the lowest carrier reading I'm still getting a reading of 366mV not zero.
> It seems that both R59 and C103 are at the end of their travel as far
> as I can see..
>

> Plugged in a mic and I can whistle it up to about 14 volts on the meter
> so I'm getting four or more watts out into the dummy load.
>
> Question is, what is the most likely thing wrong preventing me nulling
> the carrier completely?
> Not skilled in things SSB as I've never used it before so any help
> would be gratefully accepted guys...
>
> PSU is at 12.5V stabilised with plenty of capacity.
>
> Regards
> Philip G4JVF
>

2110. Re: [mkars80] Re: Bit of help needed with TX setup please

Yahoo group: mkars80
Date: 2011-06-16 20:41:31 UTC
From: Steve Drury
Topic: 2108 Message: 2110

Philip,

Sounds as though everything is OK to me - the driver transistor does get
hot, if you calculate it's dissipation you will find that its near to
the data sheet maximum, not had one fail yet though.....

Make that first call!

Steve G6ALU

On 16/06/2011 21:14, Philip wrote:
>
> Had another go at this and I may be chasing red herrings using the
> thrown together RF probe on the dummy load...
>
> Turned the 25 turn pot to mid way then tweaked C103 then back to the pot.
> Got the reading down to about 60mV so that's an improvement.
>
> Anyhoo, put the meter to one side and fired up my SDR receiver on
> 80 meters...
> Still with the MKARS into the dummy load, I could only just make
> out a tiny trace of carrier on the SDR and that's with both machines
> stood on the same bench..
> Plugged in the mic and the audio sounded good through the SDR and the
> waterfall trace showed a clean tight signal..
> So, I may be OK after all...
> What I did find was that adjusting C103 was tricky when using a metal
> trimmer tool..I think C103 is in the right way round...
>
> Mod LED is working as expected so I'll try on air at some point to
> get a report.
>
> Don't know if it's normal but the driver transistor Q5 gets quite hot
> in my machine but then I have had it running for longish periods
> whilst messing with the balance issue..
>
> Regards
> Philip G4JVF
>
> --- In mkars80@..., "Philip"<pcteee@...> wrote:
>> OK...
>> Decided to fire up the TX for a setup this afternoon..
>>
>> Plugged in a 50 ohm dummy load with a simple diode RF probe built on.
>> Using a shorted jack (no mic) to act as PTT.
>> Standing current on TX was 230mA and I adjusted it to 280mA

>> using R2.
>>
>> Connected the RF probe output to my digital voltmeter and got a reading
>> 420mV....
>> Next I tweaked R59 to minimum dip and tweaked C103 to dip even more.
>> Moved back and forth from one to the other..
>>
>> Problem is, at the lowest carrier reading I'm still getting a reading of 366mV not zero.
>> It seems that both R59 and C103 are at the end of their travel as far
>> as I can see..
>>
>> Plugged in a mic and I can whistle it up to about 14 volts on the meter
>> so I'm getting four or more watts out into the dummy load.
>>
>> Question is, what is the most likely thing wrong preventing me nulling
>> the carrier completely?
>> Not skilled in things SSB as I've never used it before so any help
>> would be gratefully accepted guys...
>>
>> PSU is at 12.5V stabilised with plenty of capacity.
>>
>> Regards
>> Philip G4JVF
>>
>
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> ------------------------------------
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1382 / Virus Database: 1513/3707 - Release Date: 06/16/11
>
>

2111. Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 11:07:31 UTC
From: jackthewhistler
Topic: 2111 Message: 2111

I have just started winding the torroids , and i am not shure when using the two holed ferrits...
Is one turn just pushing the wires through one hole, one time,
or is one turn pushing it through one hole and down through the other hole ?

Thank you in advance for your help.

2112. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 11:58:36 UTC
From: g4gcl
Topic: 2111 Message: 2112

Hi.

I think you will find the answer on page 7 of the latest instructions.

Quote "Thread the soldered end through one of the holes of a BN43 ☐ 2402 core (the smallest core, see photo) leaving about 10cm remaining then thread the wire back through the other hole ☐ this is one complete turn. Loop the soldered end through a further 4 times to make a total of 5 turns."

This applies to the single winding transformers too of course.

73,
John G4GCL

--- In mkars80@..., "jackthewhistler" <sebastian@...> wrote:
>
> I have just started winding the torroids , and i am not shure when using the two holed ferrits...
> Is one turn just pushing the wires through one hole, one time,
> or is one turn pushing it through one hole and down through the other hole ?
>
> Thank you in advance for your help.
>

2113. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 12:14:28 UTC
From: panzerbeeb
Topic: 2111 Message: 2113

The normal convention for binocular cores is that pushing the wire through one hole and back through the other is one turn..

--- In mkars80@yahoogroups.co.uk, "jackthewhistler" <sebastian@...> wrote:
>
> I have just started winding the torroids , and i am not shure when using the two holed ferrits...
> Is one turn just pushing the wires through one hole, one time,
> or is one turn pushing it through one hole and down through the other hole ?
>
> Thank you in advance for your help.
>

2114. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 12:43:07 UTC
From: jackthewhistler
Topic: 2111 Message: 2114

ok. that means i have to wind it ten times through a hole of the binocular ones to get 5 turns total , right ?
"Loop the soldered end a further 4 times to make a total of 5 turns."
in this case the further 4 times mean 8 times through one hole - right ?

sorry for the asking, but i have never done that before, and sometimes i am a bit unsecure if i understodd things right, becausee english is not my first language...

--- In mkars80@yahoogroups.co.uk, "panzerbeeb" <mike_mobbs@...> wrote:
>
> The normal convention for binocular cores is that pushing the wire through one hole and back through the other is one turn..
>
> --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> >
> > I have just started winding the torroids , and i am not shure when using the two holed ferrits...
> > Is one turn just pushing the wires through one hole, one time,
> > or is one turn pushing it through one hole and down through the other hole ?
> >
> > Thank you in advance for your help.
> >
>

2115. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 13:27:38 UTC
From: panzerbeeb
Topic: 2111 Message: 2115

I hope this works ok and helps.

Mike.

--- In mkars80@yahoogroups.co.uk, "jackthewhistler" <sebastian@...> wrote:
>
>
> ok. that means i have to wind it ten times through a hole of the binocular ones to get 5 turns total , right ?
> "Loop the soldered end a further 4 times to make a total of 5 turns."
> in this case the further 4 times mean 8 times through one hole - right ?
>
> sorry for the asking, but i have never done that before, and sometimes i am a bit unsecure if i understodd things right, becausee english is not my first language...
>
>
> --- In mkars80@yahoogroups.co.uk, "panzerbeeb" <mike_mobbs@> wrote:
> >
> > The normal convention for binocular cores is that pushing the wire through one hole and back through the other is one turn..
> >
> > --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> > >
> > > I have just started winding the torroids , and i am not shure when using the two holed ferrits...
> > > Is one turn just pushing the wires through one hole, one time,
> > > or is one turn pushing it through one hole and down through the other hole ?
> > >
> > > Thank you in advance for your help.
> > >
> >
>

2116. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 13:32:18 UTC
From: panzerbeeb
Topic: 2111 Message: 2116

So, a version that might work in the email notification maybe.

```
___
___/___/
/ ' ' /\
/___'___'/ |
/ __' _ ' \ |
| |_/| |_/| |/
\__/___/__/
/ /
/ /
1 TURN
```

This is fun... :-/
Mike.

--- In mkars80@..., "panzerbeeb" <mike_mobbs@...> wrote:
>
> ____
> ____/___/
> / ' '/\
> /___'___'/ |
> / _' _' \ |
> | |/| |/| |
> _/___/___/
> / /
> / /
> 1 TURN
>
> I hope this works ok and helps.
>
> Mike.
>
> --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> >
> >
> > ok. that means i have to wind it ten times through a hole of the binocular ones to get 5 turns total , right ?
> > "Loop the soldered end a further 4 times to make a total of 5 turns."
> > in this case the further 4 times mean 8 times through one hole - right ?
> >
> > sorry for the asking, but i have never done that before, and sometimes i am a bit unsecure if i understodd things right, becausee english is not my first language...
> >
> >
> > --- In mkars80@..., "panzerbeeb" <mike_mobbs@> wrote:

> > >
> > > The normal convention for binocular cores is that pushing the wire through one hole and back through the other is one turn..
> > >
> > > --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> > > >
> > > > I have just started winding the torroids , and i am not shure when using the two holed ferrits...
> > > > Is one turn just pushing the wires through one hole, one time,
> > > > or is one turn pushing it through one hole and down through the other hole ?
> > > >
> > > > Thank you in advance for your help.
> > > >
> > >
> >
>

2117. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 13:44:19 UTC
From: g4gcl
Topic: 2111 Message: 2117

Hi.
No. If you start by holding it like a pair of binoculars (easiest way to describe it I think) and push the wire through the left hole, or set of wires if that's the one you are doing, and then pull it back through the right one so that the start & finish are on the same side then that is 1 turn. Do the same again by putting it though the left & back through the right and that's 2 turns. Carry on until you have a total of 5 times through each hole which will give you 5 turns. For T1 & T3 do the same from the other side and so the amount of wires through each hole will be 10. Bear in mind if you start to get confused that the two ends of the wire on the same side are the same wire and of course the same for the other winding.
In other words on page 7 A & A' are one wire and B & B' are the other.

I hope that helps.

73,
John.

--- In mkars80@..., "jackthewhistler" <sebastian@...> wrote:
>
>
> ok. that means i have to wind it ten times through a hole of the binocular ones to get 5 turns total , right ?
> "Loop the soldered end a further 4 times to make a total of 5 turns."
> in this case the further 4 times mean 8 times through one hole - right ?
>
> sorry for the asking, but i have never done that before, and sometimes i am a bit unsecure if i understodd things right, becausee english is not my first language...
>
>
> --- In mkars80@..., "panzerbeeb" <mike_mobbs@> wrote:
> >
> > The normal convention for binocular cores is that pushing the wire through one hole and back through the other is one turn..
> >
> > --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> > >
> > > I have just started winding the torroids , and i am not shure when using the two holed ferrits...
> > > Is one turn just pushing the wires through one hole, one time,
> > > or is one turn pushing it through one hole and down through the other hole ?
> > >
> > > Thank you in advance for your help.
> > >
> >
>

2118. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 13:44:23 UTC
From: panzerbeeb
Topic: 2111 Message: 2118

OK, I know when I'm beat. I've uploaded 'one turn on a binocular core' from WB5RVZ's site to the file section.
http://www.wb5rvz.com/sdr/common/Common_Component_Mounting.htm
Mike.

--- In mkars80@..., "panzerbeeb" <mike_mobbs@...> wrote:
>
> So, a version that might work in the email notification maybe.
> ___
> ___/___/
> / ' ' /\
> /___'___'/ |
> / __' _ ' \ |
> | |_/| |_/| |/
> __/___/__/
> / /
> / /
> 1 TURN
>
> This is fun... :-/
> Mike.
>
> --- In mkars80@yahoogroups.co.uk, "panzerbeeb" <mike_mobbs@> wrote:
> >
> > ____
> > ____/___/
> > / ' '/\
> > /___'___'/ |
> > / _' _' \ |
> > | |/| |/| |
> > _/___/___/
> > / /
> > / /
> > 1 TURN
> >
> > I hope this works ok and helps.
> >
> > Mike.
> >
> > --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> > >
> > >
> > > ok. that means i have to wind it ten times through a hole of the binocular ones to get 5 turns total , right ?
> > > "Loop the soldered end a further 4 times to make a total of 5 turns."

> > > in this case the further 4 times mean 8 times through one hole - right ?
> > >
> > > sorry for the asking, but i have never done that before, and sometimes i am a bit unsecure if i understodd things right, becausee english is not my first language...
> > >
> > >
> > > --- In mkars80@yahoogroups.co.uk, "panzerbeeb" <mike_mobbs@> wrote:
> > > >
> > > > The normal convention for binocular cores is that pushing the wire through one hole and back through the other is one turn..
> > > >
> > > > --- In mkars80@yahoogroups.co.uk, "jackthewhistler" <sebastian@> wrote:
> > > > >
> > > > > I have just started winding the torroids , and i am not shure when using the two holed ferrits...
> > > > > Is one turn just pushing the wires through one hole, one time,
> > > > > or is one turn pushing it through one hole and down through the other hole ?
> > > > >
> > > > > Thank you in advance for your help.
> > > > >
> > > >
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> >
>

2119. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-06-21 13:56:23 UTC
From: jackthewhistler
Topic: 2111 Message: 2119

Now i do understand how it works !
thank you all for your help,
you are awesome !

PS: i will try to unsolder the one i have done wrong and already mounted this evening :/ grr ;) and finish the other ones ...

--- In mkars80@..., "g4gcl" <john@...> wrote:
>
>
>
> Hi.
> No. If you start by holding it like a pair of binoculars (easiest way to describe it I think) and push the wire through the left hole, or set of wires if that's the one you are doing, and then pull it back through the right one so that the start & finish are on the same side then that is 1 turn. Do the same again by putting it though the left & back through the right and that's 2 turns. Carry on until you have a total of 5 times through each hole which will give you 5 turns. For T1 & T3 do the same from the other side and so the amount of wires through each hole will be 10. Bear in mind if you start to get confused that the two ends of the wire on the same side are the same wire and of course the same for the other winding.
> In other words on page 7 A & A' are one wire and B & B' are the other.
>
> I hope that helps.
>
> 73,
> John.
>
> --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> >
> >
> > ok. that means i have to wind it ten times through a hole of the binocular ones to get 5 turns total , right ?
> > "Loop the soldered end a further 4 times to make a total of 5 turns."
> > in this case the further 4 times mean 8 times through one hole - right ?
> >
> > sorry for the asking, but i have never done that before, and sometimes i am a bit unsecure if i understodd things right, becausee english is not my first language...
> >
> >
> > --- In mkars80@..., "panzerbeeb" <mike_mobbs@> wrote:
> > >
> > > The normal convention for binocular cores is that pushing the wire through one hole and back through the other is one turn..
> > >

> > > --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> > > >
> > > > I have just started winding the torroids , and i am not shure when using the two holed ferrits...
> > > > Is one turn just pushing the wires through one hole, one time,
> > > > or is one turn pushing it through one hole and down through the other hole ?
> > > >
> > > > Thank you in advance for your help.
> > > >
> > >
> >
>

2120. 60m version?

Yahoo group: mkars80
Date: 2011-06-22 06:22:10 UTC
From: zaktherabbit
Topic: 2120 Message: 2120

Has anyone attempted to convert an MKARS-80 to operate as a 60m radio?

Im applying for my NoV, but have no portable equipment. Perhaps a 5MHz version would be good for this

Martin G7MRV

2121. Re: [mkars80] 60m version?

Yahoo group: mkars80
Date: 2011-06-22 07:14:29 UTC
From: g6alu@tiscali.co.uk
Topic: 2120 Message: 2121

Hi Martin,

Don't forget on 5MHz you can only transmit on specific
frequencies...

Steve G6ALU

>----Original Message----
>From: barfield673@...
>Date: 22/06/2011 7:22
>To: <mkars80@...>
>Subj: [mkars80] 60m version?
>
>Has anyone attempted to convert an MKARS-80 to operate
as a 60m radio?

>

>Im applying for my NoV, but have no portable equipment. Perhaps a 5MHz
version would be good for this

>

>

>Martin G7MRV

>

>

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>Yahoo! Groups Links

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> http://uk.groups.yahoo.com/group/mkars80/
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required)

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uk

>

> mkars80-unsubscribe@...

>

> http://uk.docs.yahoo.com/info/terms.html
>

>

2122. Re: 60m version?

Yahoo group: mkars80
Date: 2011-06-22 22:29:31 UTC
From: zaktherabbit
Topic: 2120 Message: 2122

That is of course true, but then the onus is on the operator to set the frequency correctly, as it is with any VFO/synth controlled radio. Perhaps the use of the polyvaricon might make setting that frequency a touch fiddly on occasion, but the radio itself should be workable? Of course, ive not looked into such issues as image rejection etc for the current IF against use on 60m

--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:
>
> Hi Martin,
>
> Don't forget on 5MHz you can only transmit on specific
> frequencies...
>
> Steve G6ALU
>
> >----Original Message----
> >From: barfield673@...
> >Date: 22/06/2011 7:22
> >To: <mkars80@...>
> >Subj: [mkars80] 60m version?
> >
> >Has anyone attempted to convert an MKARS-80 to operate
> as a 60m radio?
>
> >
>
> >Im applying for my NoV, but have no portable equipment. Perhaps a 5MHz
> version would be good for this
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>
> >Martin G7MRV
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> >Yahoo! Groups Links
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> > http://uk.groups.yahoo.com/group/mkars80/
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> > mkars80-unsubscribe@...
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> > http://uk.docs.yahoo.com/info/terms.html
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>

2123. Re: [mkars80] Re: 60m version?

Yahoo group: mkars80
Date: 2011-06-23 07:07:16 UTC
From: g6alu@tiscali.co.uk
Topic: 2120 Message: 2123

Martin,
To tune 5MHz the oscillator will have to run around 5MHz when using a 10MHz IF - obvious problem here is that the osc. frequency would be close to the IF which may not cause a problem but the second harmonic would pass straight through the BPF so will be transmitted.

Without calculating inter-modulation products an 8MHz IF would seem appropriate with a 3MHz VFO, image would then be at 11MHz which should be adequately attenuated by the LPF.

Steve

>----Original Message----

>From: barfield673@...

>Date: 22/06/2011 23:29

>To: <mkars80@...>

>Subj: [mkars80] Re: 60m version?

>

>That is of course true, but then the onus is on the operator to set the frequency correctly, as it is with any VFO/synth controlled radio. Perhaps the use of the polyvaricon might make setting that frequency a touch fiddly on occasion, but the radio itself should be workable? Of course, ive not looked into such issues as image rejection etc for the current IF against use on 60m

>

>--- In mkars80@..., "g6alu@..." <g6alu@...> wrote:

>>

>> Hi Martin,

>>

>> Don't forget on 5MHz you can only transmit on specific

>> frequencies...

>>

>> Steve G6ALU

>>

>> >----Original Message----

>> >From: barfield673@...

>> >Date: 22/06/2011 7:22

>> >To: <mkars80@...>

>> >Subj: [mkars80] 60m version?

>> >

>> >Has anyone attempted to convert an MKARS-80 to operate

>> as a 60m radio?

>>

>> >

>>

>> >Im applying for my NoV, but have no portable equipment. Perhaps a
5MHz

>> version would be good for this

>>

>> >

>>

>> >

>>

>> >Martin G7MRV

>>

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>> >Yahoo! Groups Links

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>> > http://uk.groups.yahoo.com/group/mkars80/
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> mkars80-unsubscribe@...

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> http://uk.docs.yahoo.com/info/terms.html
>

>

2124. free handbook radio F6BCU 2011

Yahoo group: mkars80
Date: 2011-06-27 05:44:57 UTC
From: F6BCU
Topic: 2124 Message: 2124

The Big 'French Handbook' - free to download
New 2011 edition - available since June 25 2011.

Now, it is possible to download free the 'French Handbook' accomplished by F6BCU.

Numerous technical articles are at your disposal, ideal for home-brew.

You can download compact disk free on the site of Onlineradio (exclusive).
http://communaute.onlineradio.fr/files/file/
162-handbook-de-la-ligne-bleue/ - for download (540 Mo)

Jean-Nicolas
http://www.onlineradio.fr

2125. MKARS CW Adaptor Kit in USA for Sale

Yahoo group: mkars80
Date: 2011-06-28 01:22:21 UTC
From: Ken Pendarvis
Topic: 2125 Message: 2125

I have the COMPLETE MKARS CW Adapter kit
with keyer, knobs, etc for sale. I am located in the US. (CA)
If any US hams would like to buy it without the hassle
of Pay paL and Customs forms, and having it arrive sooner,
please contact me at my QRZ email and make offer.

Sorry to jack the thread, my apologies.
My usergroup username and password have been lost and the yahoo
retrieval system for that info is not working.
73, Ken AD6KA

----- Original Message -----
From: F6BCU
To: mkars80@...
Sent: Sunday, June 26, 2011 10:44 PM
Subject: [mkars80] free handbook radio F6BCU 2011

The Big 'French Handbook' - free to download
New 2011 edition - available since June 25 2011.

Now, it is possible to download free the 'French Handbook' accomplished by F6BCU.

Numerous technical articles are at your disposal, ideal for home-brew.

You can download compact disk free on the site of Onlineradio (exclusive).
http://communaute.onlineradio.fr/files/file/
162-handbook-de-la-ligne-bleue/ - for download (540 Mo)

Jean-Nicolas
http://www.onlineradio.fr

[Non-text portions of this message have been removed]

2126. Re: [mkars80] MKARS CW Adaptor Kit in USA for Sale

Yahoo group: mkars80
Date: 2011-06-28 19:01:43 UTC
From: Steve Drury
Topic: 2125 Message: 2126

So junk mail does come in handy!

Steve G6ALU

On 28/06/2011 02:22, Ken Pendarvis wrote:
> I have the COMPLETE MKARS CW Adapter kit
> with keyer, knobs, etc for sale. I am located in the US. (CA)
> If any US hams would like to buy it without the hassle
> of Pay paL and Customs forms, and having it arrive sooner,
> please contact me at my QRZ email and make offer.
>
> Sorry to jack the thread, my apologies.
> My usergroup username and password have been lost and the yahoo
> retrieval system for that info is not working.
> 73, Ken AD6KA
>
>
>
> ----- Original Message -----
> From: F6BCU
> To: mkars80@...
> Sent: Sunday, June 26, 2011 10:44 PM
> Subject: [mkars80] free handbook radio F6BCU 2011
>
>
>
> The Big 'French Handbook' - free to download
> New 2011 edition - available since June 25 2011.
>
> Now, it is possible to download free the 'French Handbook' accomplished by F6BCU.
>
> Numerous technical articles are at your disposal, ideal for home-brew.
>
> You can download compact disk free on the site of Onlineradio (exclusive).
> http://communaute.onlineradio.fr/files/file/
> 162-handbook-de-la-ligne-bleue/ - for download (540 Mo)
>
> Jean-Nicolas
> http://www.onlineradio.fr
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>
> [Non-text portions of this message have been removed]

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> ---
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1388 / Virus Database: 1516/3731 - Release Date: 06/28/11
>
>

2127. Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 11:03:41 UTC
From: tasmod
Topic: 2127 Message: 2127

OK the kit is completed and works OK on receive so far. However the display doesn't.

The display shows two lines of blocks when contrast is turned up but apparently no data.

I have tried three different pics and three displays. (A friend is building one.)

Scoping the pic inputs shows vfo and 10mhz signals.

The data lines show data, bar one, which doesn't. The voltage checks as per the build list shows pin 10 on the pic as .49v not 4.9v

The lines thru from chip socket to the display have been checked for continuity and clear OK.

I'm now at a loss where to look now.

I can't program another chip as my pic programmer has decided not to work as well !!

Any suggestions gratefully received.

Rob G4NQX

2128. RE: [mkars80] Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-07-01 11:21:12 UTC
From: John Martin
Topic: 2111 Message: 2128

I cannot get any audio although the initial voltage checks are as spec and since fitting the display anyway I have set it up ok but still no audio obviously.

From something that was mentioned in previous emails it seems that one of the torrid could be at fault but I am not sure which one to start with, I don't really want to wind them all again??

Could someone point to the possible culprit.

Thanks.

John.

From: mkars80@... [mailto:mkars80@...] On Behalf Of jackthewhistler
Sent: 21 June 2011 14:56
To: mkars80@...
Subject: [mkars80] Re: Help with winding torroids

Now i do understand how it works !
thank you all for your help,
you are awesome !

PS: i will try to unsolder the one i have done wrong and already mounted this evening :/ grr ;) and finish the other ones ...

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> , "g4gcl" <john@...> wrote:
>
>
>
> Hi.
> No. If you start by holding it like a pair of binoculars (easiest way to describe it I think) and push the wire through the left hole, or set of wires if that's the one you are doing, and then pull it back through the right one so that the start & finish are on the same side then that is 1 turn. Do the same again by putting it though the left & back through the right and that's 2 turns. Carry on until you have a total of 5 times through each hole which will give you 5 turns. For T1 & T3 do the same from the other side and so the amount of wires through each hole will be 10. Bear in mind if you start to get confused that the two ends of the wire on the same side are the same wire and of course the same for the other winding.
> In other words on page 7 A & A' are one wire and B & B' are the other.
>
> I hope that helps.
>

> 73,
> John.
>
> --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
"jackthewhistler" <sebastian@> wrote:
> >
> >
> > ok. that means i have to wind it ten times through a hole of the
binocular ones to get 5 turns total , right ?
> > "Loop the soldered end a further 4 times to make a total of 5 turns."
> > in this case the further 4 times mean 8 times through one hole - right ?
> >
> > sorry for the asking, but i have never done that before, and sometimes i
am a bit unsecure if i understodd things right, becausee english is not my
first language...
> >
> >
> > --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
"panzerbeeb" <mike_mobbs@> wrote:
> > >
> > > The normal convention for binocular cores is that pushing the wire
through one hole and back through the other is one turn..
> > >
> > > --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
, "jackthewhistler" <sebastian@> wrote:
> > > >
> > > > I have just started winding the torroids , and i am not shure when
using the two holed ferrits...
> > > > Is one turn just pushing the wires through one hole, one time,
> > > > or is one turn pushing it through one hole and down through the
other hole ?
> > > >
> > > > Thank you in advance for your help.
> > > >
> > >
> > >
>

[Non-text portions of this message have been removed]

2129. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 11:43:56 UTC
From: vk4apn
Topic: 2127 Message: 2129

> The display shows two lines of blocks when contrast is turned up but apparently no data.

I am assuming that you have wound contrast pot thru full range?

> Scoping the pic inputs shows vfo and 10mhz signals.

The only issue I have had it the past (with PICs) that presented symptoms like yours is when I did not tie the "enable" pin on the display either high or low - cant remember which way.

If the PIC has 10mhz on the Osc pin, then apart from the enable pin, the only thing left is the PIC - if all else checks out OK

Good Luck
Paul vk4apn

> I can't program another chip as my pic programmer has decided not to work as well !!
>
> Any suggestions gratefully received.
>
> Rob G4NQX
>

2130. Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-07-01 11:52:33 UTC
From: vk4apn
Topic: 2111 Message: 2130

> I cannot get any audio although the initial voltage checks are as spec and
> since fitting the display anyway I have set it up ok but still no audio
> obviously.

When you say no audio - do you mean:

You cannot hear any signals with an antenna connected (or sig gen etc)

or

The audio stage itself has no output? i.e. with your ear to the speaker do you hear a faint hissing? If you touch your finger to the lm386 input can you hear a change?

Really need more concise description to help further.

Paul vk4apn

2131. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 11:58:21 UTC
From: tasmod
Topic: 2127 Message: 2131

Paul,

Yes I swung the pot thru its range and am able to dim the blocks. I only said this to illustrate that two lines were available on the display.
I assumed this was because the enable line was activated, else I thought it defaulted to one line.

My friend and I are really stumped. He's more knowledgeable than I and he can't see the problem.

I did have various problems with torn tracks around the pcb display pads due to stupidly drilling the holes out from the 'topside' this unfortunately pushed the pads out of the board in circuit side. However we made small links up and all double check OK for continuity.

I drilled it to fit header pins. Wish I hadn't.

Rob

--- In mkars80@..., "vk4apn" <pauln@...> wrote:
>
>
>
> > The display shows two lines of blocks when contrast is turned up but apparently no data.
>
> I am assuming that you have wound contrast pot thru full range?
>
> > Scoping the pic inputs shows vfo and 10mhz signals.
>
> The only issue I have had it the past (with PICs) that presented symptoms like yours is when I did not tie the "enable" pin on the display either high or low - cant remember which way.
>
> If the PIC has 10mhz on the Osc pin, then apart from the enable pin, the only thing left is the PIC - if all else checks out OK
>
> Good Luck
> Paul vk4apn
>
> > I can't program another chip as my pic programmer has decided not to work as well !!
> >
> > Any suggestions gratefully received.
> >
> > Rob G4NQX
> >

>

2132. First Qso and some mods

Yahoo group: mkars80
Date: 2011-07-01 12:21:16 UTC
From: Philip
Topic: 2132 Message: 2132

Pleased to have got my first QSO with the little rig last night...
I spent most of yesterday squeezing in an 80 meter dipole which took some time. It's not very high up but it got me out nicely and using the dipole has made the receive noise a lot less...

Anyhoo, treated the rig to another case. It's a cheap aliminium box from Maplin but it does the job nicely.
I fitted the varicap diode mod to the VFO hence the case change. This has really made a huge difference given the ten turn pot. Also replaced the display with a blue lit one I had in my junk box.
For tuning up, I put in a switchable oscillator feeding a tone into the mic socket.

Rock solid kit and loads of fun..

Latest pictures in my Photo folder on here (g4jvf)

Regards
Philip G4JVF

2133. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 12:27:16 UTC
From: Philip
Topic: 2127 Message: 2133

--- In mkars80@..., "tasmod" <tasmod@...> wrote:
>
> OK the kit is completed and works OK on receive so far. However the display doesn't.
>
> The display shows two lines of blocks when contrast is turned up but apparently no data.
>
> I have tried three different pics and three displays. (A friend is building one.)
>
> Scoping the pic inputs shows vfo and 10mhz signals.
>
> The data lines show data, bar one, which doesn't. The voltage checks as per the build list shows pin 10 on the pic as .49v not 4.9v
>
> The lines thru from chip socket to the display have been checked for continuity and clear OK.
>
> I'm now at a loss where to look now.
>
> I can't program another chip as my pic programmer has decided not to work as well !!
>
> Any suggestions gratefully received.
>
> Rob G4NQX
>

Can't offer any suggestion other than the broken track didn't perhaps go back right..
One thing I can do is having just changed my display to a back lit one, I have no pressing need for the one I took out.
If you find that your problem is or maybe is a faulty diplay then shout me your address and I'll stick this one in the post for you...

Regards
Philip G4JVF

2134. Re: [mkars80] Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 12:37:43 UTC
From: g6alu@tiscali.co.uk
Topic: 2127 Message: 2134

Hi Rob,

I guess the problem is related to the drilling of the vias but like you I have previously repaired these with single strands of wire through the PCB.

It sounds as though you are using a header with ribbon cable? If so make sure its no longer than a few inches at least until you have the display working.

Re measure each pin through from the micro to the display, be carefull with the display pin numbering as its not logical! Here is a data sheet suitable for the diplay you are using, note that many displays have different pin-out:

http://www.rapidonline.com/netalogue/specs/57-0911.pdf

Did you build the MKARS80 as per the instructions before you modded it and did it work OK?

Steve G6ALU

>----Original Message----
>From: tasmod@...
>Date: 01/07/2011 12:58
>To: <mkars80@...>
>Subj: [mkars80] Re: Help needed with display problem.
>
>Paul,
>
>Yes I swung the pot thru its range and am able to dim the blocks. I only said this to illustrate that two lines were available on the display.

> I assumed this was because the enable line was activated, else I thought it defaulted to one line.

>

>My friend and I are really stumped. He's more knowledgeable than I and he can't see the problem.

>

>I did have various problems with torn tracks around the pcb display pads due to stupidly drilling the holes out from the 'topside' this unfortunately pushed the pads out of the board in circuit side. However we made small links up and all double check OK for continuity.

>

>I drilled it to fit header pins. Wish I hadn't.

>

>Rob

>

>--- In mkars80@..., "vk4apn" <pauln@...> wrote:

>>

>>

>>

>> > The display shows two lines of blocks when contrast is turned up
but apparently no data.

>>

>> I am assuming that you have wound contrast pot thru full range?

>>

>> > Scoping the pic inputs shows vfo and 10mhz signals.

>>

>> The only issue I have had it the past (with PICs) that presented
symptoms like yours is when I did not tie the "enable" pin on the
display either high or low - cant remember which way.

>>

>> If the PIC has 10mhz on the Osc pin, then apart from the enable pin,
the only thing left is the PIC - if all else checks out OK

>>

>> Good Luck

>> Paul vk4apn

>>

>> > I can't program another chip as my pic programmer has decided not
to work as well !!

>> >

>> > Any suggestions gratefully received.

>> >

>> > Rob G4NQX

>> >

>>

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>Yahoo! Groups Links

>

> http://uk.groups.yahoo.com/group/mkars80/
>

required)

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uk

>

> mkars80-unsubscribe@...

>

> http://uk.docs.yahoo.com/info/terms.html
>

>

2135. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 13:22:33 UTC
From: vk4apn
Topic: 2127 Message: 2135

I assumed this was because the enable line was activated, else I thought it defaulted to one line.

> I did have various problems with torn tracks around the pcb display pads due to stupidly drilling the holes out from the 'topside' this unfortunately pushed the pads out of the board in circuit side. However we made small links up and all double check OK for continuity.
>
> I drilled it to fit header pins. Wish I hadn't.

Ok, well I would suggest that you look with your CRO at each pin at the PIC and then immediately look at the corresponding pin on the display itself - if there is a poor quality connection introduced by drilling out the pins/vias this should find it quickly.

Paul vk4apn

2136. Prob: wrong frequency 000,000

Yahoo group: mkars80
Date: 2011-07-01 13:44:23 UTC
From: jackthewhistler
Topic: 2136 Message: 2136

I_m nearly done with the build up and everything seems to be ok -so far.
voltages look ok.
But, the display shows frequency "000,000 12,3V U "
No matter how often i turn the regulators, what could that be ?

2137. Re: Prob: wrong frequency 000,000

Yahoo group: mkars80
Date: 2011-07-01 15:26:00 UTC
From: hamlab3
Topic: 2136 Message: 2137

Im not sure what you mean by "No matter how often i turn the regulators".

It looks as the micro is not getting the VFO signal, if you can reveive stations check the voltages on Q8 if you cannot receive anything check the voltages on Q11 and Q12 as the VFO may not be running - check also the soldering on L5.

Steve G6ALU

--- In mkars80@..., "jackthewhistler" <sebastian@...> wrote:
>
> I_m nearly done with the build up and everything seems to be ok -so far.
> voltages look ok.
> But, the display shows frequency "000,000 12,3V U "
> No matter how often i turn the regulators, what could that be ?
>

2138. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 15:35:08 UTC
From: tasmod
Topic: 2127 Message: 2138

Hi Steve,

Yes, I built the kit as standard and have yet to attach the varactor mod etc.

I finally broke the pads completely off the board removing a header plug just now, so now both the display leads are directly soldered to ic socket pins underneath. The ribbons are about 4 inches long.

I rechecked the data lines just using a logic tester. 3 show pulses, 1 shows pulses @ low. (Pin 10 again)

I scoped the vfo and 10mhz. vfo is approx 4.5v and 10mhz is 2.5v p2p

The most puzzling part is my friend has an earlier and a later pic chip available. We tested both of those and still no output on display. Both show pin 10 as logic pulses low and dc voltage check at .49v.

I'm lost for ideas just now.

Rob G4NQX

--- In mkars80@....uk, "g6alu@..." <g6alu@...> wrote:
>
> Hi Rob,
>
> I guess the problem is related to the drilling of the vias but like
> you I have previously repaired these with single strands of wire
> through the PCB.
>
>
>
> It sounds as though you are using a header with ribbon cable? If so
> make sure its no longer than a few inches at least until you have the
> display working.
>
>
>
> Re measure each pin through from the micro to the display, be carefull
> with the display pin numbering as its not logical! Here is a data sheet
> suitable for the diplay you are using, note that many displays have
> different pin-out:
>
>
> http://www.rapidonline.com/netalogue/specs/57-0911.pdf
>
>
> Did you build the MKARS80 as per the instructions before you modded it

> and did it work OK?
>
> Steve G6ALU
>
> >----Original Message----
> >From: tasmod@...
> >Date: 01/07/2011 12:58
> >To: <mkars80@...>
> >Subj: [mkars80] Re: Help needed with display problem.
> >
> >Paul,
> >
> >Yes I swung the pot thru its range and am able to dim the
> blocks. I only said this to illustrate that two lines were available on
> the display.
>
> > I assumed this was because the enable line was activated, else I
> thought it defaulted to one line.
>
> >
>
> >My friend and I are really stumped. He's more knowledgeable than I and
> he can't see the problem.
>
> >
>
> >I did have various problems with torn tracks around the pcb display
> pads due to stupidly drilling the holes out from the 'topside' this
> unfortunately pushed the pads out of the board in circuit side. However
> we made small links up and all double check OK for continuity.
>
> >
>
> >I drilled it to fit header pins. Wish I hadn't.
>
> >
>
> >Rob
>
> >
>
> >--- In mkars80@..., "vk4apn" <pauln@> wrote:
>
> >>
>
> >>
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> >>
>
> >> > The display shows two lines of blocks when contrast is turned up

> but apparently no data.
>
> >>
>
> >> I am assuming that you have wound contrast pot thru full range?
>
> >>
>
> >> > Scoping the pic inputs shows vfo and 10mhz signals.
>
> >>
>
> >> The only issue I have had it the past (with PICs) that presented
> symptoms like yours is when I did not tie the "enable" pin on the
> display either high or low - cant remember which way.
>
> >>
>
> >> If the PIC has 10mhz on the Osc pin, then apart from the enable pin,
> the only thing left is the PIC - if all else checks out OK
>
> >>
>
> >> Good Luck
>
> >> Paul vk4apn
>
> >>
>
> >> > I can't program another chip as my pic programmer has decided not
> to work as well !!
>
> >> >
>
> >> > Any suggestions gratefully received.
>
> >> >
>
> >> > Rob G4NQX
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> >Yahoo! Groups Links
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> > http://uk.groups.yahoo.com/group/mkars80/
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> > mkars80-unsubscribe@...
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> > http://uk.docs.yahoo.com/info/terms.html
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2139. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 15:36:58 UTC
From: tasmod
Topic: 2127 Message: 2139

Hi Paul,

This is now not necessary, I unfortunately broke the pads removing a plug from the header. So now the leads are directly soldered to the ic socket pins under the board.

Rob

--- In mkars80@..., "vk4apn" <pauln@...> wrote:
>
>
>
>
> I assumed this was because the enable line was activated, else I thought it defaulted to one line.
>
> > I did have various problems with torn tracks around the pcb display pads due to stupidly drilling the holes out from the 'topside' this unfortunately pushed the pads out of the board in circuit side. However we made small links up and all double check OK for continuity.
> >
> > I drilled it to fit header pins. Wish I hadn't.
>
> Ok, well I would suggest that you look with your CRO at each pin at the PIC and then immediately look at the corresponding pin on the display itself - if there is a poor quality connection introduced by drilling out the pins/vias this should find it quickly.
>
> Paul vk4apn
>

2140. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 15:39:00 UTC
From: tasmod
Topic: 2127 Message: 2140

Thanks for the offer Philip. I also have a backlit blue display waiting to be used when I finally have things fully working and I'm about to box up.

Rob

--- In mkars80@..., "Philip" <pcteee@...> wrote:
>
>
>
>
>
>
> --- In mkars80@..., "tasmod" <tasmod@> wrote:
> >
> > OK the kit is completed and works OK on receive so far. However the display doesn't.
> >
> > The display shows two lines of blocks when contrast is turned up but apparently no data.
> >
> > I have tried three different pics and three displays. (A friend is building one.)
> >
> > Scoping the pic inputs shows vfo and 10mhz signals.
> >
> > The data lines show data, bar one, which doesn't. The voltage checks as per the build list shows pin 10 on the pic as .49v not 4.9v
> >
> > The lines thru from chip socket to the display have been checked for continuity and clear OK.
> >
> > I'm now at a loss where to look now.
> >
> > I can't program another chip as my pic programmer has decided not to work as well !!
> >
> > Any suggestions gratefully received.
> >
> > Rob G4NQX
> >
>
>
> Can't offer any suggestion other than the broken track didn't perhaps go back right..
> One thing I can do is having just changed my display to a back lit one, I have no pressing need for the one I took out.
> If you find that your problem is or maybe is a faulty diplay then shout me your address and I'll stick this one in the post for you...
>

> Regards
> Philip G4JVF
>

2141. Re: [mkars80] Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 20:06:30 UTC
From: Steve Drury
Topic: 2127 Message: 2141

```
Rob,
If you have a repetitive wave form on the display / micro pins it sounds
as though the micro is waiting for the display to be ready for the next
byte of information, an extract of the code:

busy_check
clrwdt ; Clear watchdog

bcf Rs ; Set lcd for command
mode (PIN 1 of the micro goes low)
bsf R_w ; Setup to read busy flag
(Pin 6 goes high)
bsf Disp_En ; Set En high (Pin 2 goes high)
movfw Lcd_Data ; Read upper nibble busy flag (at
this point data bit 7 - pin 13 - should be set)
movwf Temp
bcf Disp_En ; (Pin 2 goes low)
bsf Disp_En ; Toggle En to get other
nibble (pin 2 goes high)
bcf Disp_En ; and discard (pin 2 goes low)
btfsc Temp,7 ; Check busy flag, high = busy
( checks
goto busy_check ; if busy, check again (if pin 7
wasn't high go round again!)
bsf rp0 ; Select register page 1
movlw Portb_Out
andwf TRISB,f ; Set for disp output
bcf rp0 ; Select register page 0
bsf R_w ;
return

From this you can see that data bit 7 (micro pin 13) should either be
permanently high or toggling low - high.

I hope this helps?

Just one thing, do your friends displays still function in his MKARS80
OK after you tried them in yours?

Steve G6ALU

On 01/07/2011 16:35, tasmod wrote:
> Hi Steve,
>
> Yes, I built the kit as standard and have yet to attach the varactor mod etc.
>
> I finally broke the pads completely off the board removing a header plug just now, so now
```

both the display leads are directly soldered to ic socket pins underneath. The ribbons are about 4 inches long.
>
> I rechecked the data lines just using a logic tester. 3 show pulses, 1 shows pulses @ low. (Pin 10 again)
>
> I scoped the vfo and 10mhz. vfo is approx 4.5v and 10mhz is 2.5v p2p
>
> The most puzzling part is my friend has an earlier and a later pic chip available. We tested both of those and still no output on display. Both show pin 10 as logic pulses low and dc voltage check at .49v.
>
> I'm lost for ideas just now.
>
> Rob G4NQX
>
>
> --- In mkars80@..., "g6alu@..."<g6alu@...> wrote:
>> Hi Rob,
>>
>> I guess the problem is related to the drilling of the vias but like
>> you I have previously repaired these with single strands of wire
>> through the PCB.
>>
>>
>>
>> It sounds as though you are using a header with ribbon cable? If so
>> make sure its no longer than a few inches at least until you have the
>> display working.
>>
>>
>>
>> Re measure each pin through from the micro to the display, be carefull
>> with the display pin numbering as its not logical! Here is a data sheet
>> suitable for the diplay you are using, note that many displays have
>> different pin-out:
>>
>>
>> http://www.rapidonline.com/netalogue/specs/57-0911.pdf
>>
>>
>> Did you build the MKARS80 as per the instructions before you modded it
>> and did it work OK?
>>
>> Steve G6ALU
>>
>>> ----Original Message----
>>> From: tasmod@...
>>> Date: 01/07/2011 12:58
>>> To:<mkars80@...>
>>> Subj: [mkars80] Re: Help needed with display problem.

>>>
>>> Paul,
>>>
>>> Yes I swung the pot thru its range and am able to dim the
>> blocks. I only said this to illustrate that two lines were available on
>> the display.
>>
>>> I assumed this was because the enable line was activated, else I
>> thought it defaulted to one line.
>>
>>> My friend and I are really stumped. He's more knowledgeable than I and
>> he can't see the problem.
>>
>>> I did have various problems with torn tracks around the pcb display
>> pads due to stupidly drilling the holes out from the 'topside' this
>> unfortunately pushed the pads out of the board in circuit side. However
>> we made small links up and all double check OK for continuity.
>>
>>> I drilled it to fit header pins. Wish I hadn't.
>>> Rob
>>> --- In mkars80@..., "vk4apn"<pauln@> wrote:
>>>>> The display shows two lines of blocks when contrast is turned up
>> but apparently no data.
>>
>>>>> I am assuming that you have wound contrast pot thru full range?
>>>>> Scoping the pic inputs shows vfo and 10mhz signals.
>>>>> The only issue I have had it the past (with PICs) that presented
>> symptoms like yours is when I did not tie the "enable" pin on the
>> display either high or low - cant remember which way.
>>
>>>>> If the PIC has 10mhz on the Osc pin, then apart from the enable pin,
>> the only thing left is the PIC - if all else checks out OK
>>
>>>>> Good Luck
>>>>> Paul vk4apn
>>>>> I can't program another chip as my pic programmer has decided not
>> to work as well !!
>>
>>>>> Any suggestions gratefully received.
>>>>> Rob G4NQX
>>> ------------------------------------
>>> Yahoo! Groups Links
>>> http://uk.groups.yahoo.com/group/mkars80/
>>>
>> required)
>>
>> uk
>>
>>> mkars80-unsubscribe@...
>>> http://uk.docs.yahoo.com/info/terms.html

>>>
>
>
>
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>
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>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1388 / Virus Database: 1516/3737 - Release Date: 07/01/11
>
>

2142. Re: [mkars80] Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-07-01 20:08:53 UTC
From: Steve Drury
Topic: 2111 Message: 2142

I agree with Pauls test method - put your finger under the pins of the
LM386, do you get audio? IE hissing, pops or squeals?

If not check the voltages on all pins.

Steve G6ALU

On 01/07/2011 12:52, vk4apn wrote:
>
>> I cannot get any audio although the initial voltage checks are as spec and
>> since fitting the display anyway I have set it up ok but still no audio
>> obviously.
> When you say no audio - do you mean:
>
> You cannot hear any signals with an antenna connected (or sig gen etc)
>
> or
>
> The audio stage itself has no output? i.e. with your ear to the speaker do you hear a
faint hissing? If you touch your finger to the lm386 input can you hear a change?
>
> Really need more concise description to help further.
>
> Paul vk4apn
>
>
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>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1388 / Virus Database: 1516/3737 - Release Date: 07/01/11
>
>

2143. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-01 21:13:32 UTC
From: tasmod
Topic: 2127 Message: 2143

Steve,

Somewhat messed up now!

In an attempt to double check the pic I repaired my programmer and progged a couple of 16f84s. They worked and checked out OK with simple programs. One to the mkars80 display (separated) which worked fine.

So I tried the 16f818 and loaded up the code and altered it to show my callsign. However first programming sequence is erase then program. Guess what, erased but not programmed, it refuses and errors out with 0fff now as a blank chip . Grrrrr.

My friend is away just now till Monday so I don't have access to another chip.

Rob G4NQX

--- In mkars80@yahoogroups.co.uk, Steve Drury <g6alu@...> wrote:
>
> Rob,
> If you have a repetitive wave form on the display / micro pins it sounds
> as though the micro is waiting for the display to be ready for the next
> byte of information, an extract of the code:
>
> busy_check
> clrwdt ; Clear watchdog
>
> bcf Rs ; Set lcd for command
> mode (PIN 1 of the micro goes low)
> bsf R_w ; Setup to read busy flag
> (Pin 6 goes high)
> bsf Disp_En ; Set En high (Pin 2 goes high)
> movfw Lcd_Data ; Read upper nibble busy flag (at
> this point data bit 7 - pin 13 - should be set)
> movwf Temp
> bcf Disp_En ; (Pin 2 goes low)
> bsf Disp_En ; Toggle En to get other
> nibble (pin 2 goes high)
> bcf Disp_En ; and discard (pin 2 goes low)
> btfsc Temp,7 ; Check busy flag, high = busy
> (checks
> goto busy_check ; if busy, check again (if pin 7
> wasn't high go round again!)
> bsf rp0 ; Select register page 1
> movlw Portb_Out
> andwf TRISB,f ; Set for disp output
> bcf rp0 ; Select register page 0

> bsf R_w ;
> return
>
> From this you can see that data bit 7 (micro pin 13) should either be
> permanently high or toggling low - high.
>
> I hope this helps?
>
> Just one thing, do your friends displays still function in his MKARS80
> OK after you tried them in yours?
>
> Steve G6ALU
>
> On 01/07/2011 16:35, tasmod wrote:
> > Hi Steve,
> >
> > Yes, I built the kit as standard and have yet to attach the varactor mod etc.
> >
> > I finally broke the pads completely off the board removing a header plug just now, so now both the display leads are directly soldered to ic socket pins underneath. The ribbons are about 4 inches long.
> >
> > I rechecked the data lines just using a logic tester. 3 show pulses, 1 shows pulses @ low. (Pin 10 again)
> >
> > I scoped the vfo and 10mhz. vfo is approx 4.5v and 10mhz is 2.5v p2p
> >
> > The most puzzling part is my friend has an earlier and a later pic chip available. We tested both of those and still no output on display. Both show pin 10 as logic pulses low and dc voltage check at .49v.
> >
> > I'm lost for ideas just now.
> >
> > Rob G4NQX
> >
> >
> > --- In mkars80@yahoogroups.co.uk, "g6alu@"<g6alu@> wrote:
> >> Hi Rob,
> >>
> >> I guess the problem is related to the drilling of the vias but like
> >> you I have previously repaired these with single strands of wire
> >> through the PCB.
> >>
> >>
> >>
> >> It sounds as though you are using a header with ribbon cable? If so
> >> make sure its no longer than a few inches at least until you have the
> >> display working.
> >>
> >>

> >>
> >> Re measure each pin through from the micro to the display, be carefull
> >> with the display pin numbering as its not logical! Here is a data sheet
> >> suitable for the diplay you are using, note that many displays have
> >> different pin-out:
> >>
> >>
> >> http://www.rapidonline.com/netalogue/specs/57-0911.pdf
> >>
> >>
> >> Did you build the MKARS80 as per the instructions before you modded it
> >> and did it work OK?
> >>
> >> Steve G6ALU
> >>
> >>> ----Original Message----
> >>> From: tasmod@
> >>> Date: 01/07/2011 12:58
> >>> To:<mkars80@yahoogroups.co.uk>
> >>> Subj: [mkars80] Re: Help needed with display problem.
> >>>
> >>> Paul,
> >>>
> >>> Yes I swung the pot thru its range and am able to dim the
> >> blocks. I only said this to illustrate that two lines were available on
> >> the display.
> >>
> >>> I assumed this was because the enable line was activated, else I
> >> thought it defaulted to one line.
> >>
> >>> My friend and I are really stumped. He's more knowledgeable than I and
> >> he can't see the problem.
> >>
> >>> I did have various problems with torn tracks around the pcb display
> >> pads due to stupidly drilling the holes out from the 'topside' this
> >> unfortunately pushed the pads out of the board in circuit side. However
> >> we made small links up and all double check OK for continuity.
> >>
> >>> I drilled it to fit header pins. Wish I hadn't.
> >>> Rob
> >>> --- In mkars80@..., "vk4apn"<pauln@> wrote:
> >>>> The display shows two lines of blocks when contrast is turned up
> >> but apparently no data.
> >>
> >>>> I am assuming that you have wound contrast pot thru full range?
> >>>> Scoping the pic inputs shows vfo and 10mhz signals.
> >>>> The only issue I have had it the past (with PICs) that presented
> >> symptoms like yours is when I did not tie the "enable" pin on the
> >> display either high or low - cant remember which way.
> >>

> >>>> If the PIC has 10mhz on the Osc pin, then apart from the enable pin,
> >> the only thing left is the PIC - if all else checks out OK
> >>
> >>>> Good Luck
> >>>> Paul vk4apn
> >>>>> I can't program another chip as my pic programmer has decided not
> >> to work as well !!
> >>
> >>>>> Any suggestions gratefully received.
> >>>>> Rob G4NQX
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> >>> Yahoo! Groups Links
> >>> http://uk.groups.yahoo.com/group/mkars80/
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> >> required)
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> > -----
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> > Version: 10.0.1388 / Virus Database: 1516/3737 - Release Date: 07/01/11
> >
> >
>

2144. Good Link to Varactor Tuning Mod

Yahoo group: mkars80
Date: 2011-07-01 21:44:55 UTC
From: Ken Pendarvis
Topic: 2144 Message: 2144

Can someone PLEASE send me a good link
tfor the MKARS80 Varactor tuning mod with the
10 turn pot? Thanks.
(SRI to ask this way, I am trying to recover lost
User Group Login and Password)
Sorry Thread Jack.
73 and Happy Independence Day Weekend to Yanks!
TNX ES BCNU, Ken AD6KA kenp@...

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Friday, July 01, 2011 1:08 PM
Subject: Re: [mkars80] Re: Help with winding torroids

I agree with Pauls test method - put your finger under the pins of the
LM386, do you get audio? IE hissing, pops or squeals?

If not check the voltages on all pins.

Steve G6ALU

On 01/07/2011 12:52, vk4apn wrote:
>
>> I cannot get any audio although the initial voltage checks are as spec and
>> since fitting the display anyway I have set it up ok but still no audio
>> obviously.
> When you say no audio - do you mean:
>
> You cannot hear any signals with an antenna connected (or sig gen etc)
>
> or
>
> The audio stage itself has no output? i.e. with your ear to the speaker do you hear a
faint hissing? If you touch your finger to the lm386 input can you hear a change?
>
> Really need more concise description to help further.
>
> Paul vk4apn
>
>
>
>
>
>
> ------------------------------------

>
> Yahoo! Groups Links
>
>
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>
>

[Non-text portions of this message have been removed]

2145. RE: [mkars80] Good Link to Varactor Tuning Mod

Yahoo group: mkars80
Date: 2011-07-01 21:51:22 UTC
From: Clive Reynolds
Topic: 2144 Message: 2145

Try http://www.pa0rcl.com/PA0RCL/MKARS80.html

Clive G3GJA / G8EQZ

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Ken Pendarvis
Sent: 01 July 2011 22:45
To: mkars80@...
Subject: [mkars80] Good Link to Varactor Tuning Mod

Can someone PLEASE send me a good link
tfor the MKARS80 Varactor tuning mod with the
10 turn pot? Thanks.
(SRI to ask this way, I am trying to recover lost
User Group Login and Password)
Sorry Thread Jack.
73 and Happy Independence Day Weekend to Yanks!
TNX ES BCNU, Ken AD6KA kenp@... <mailto:kenp%40socal.rr.com>

----- Original Message -----
From: Steve Drury
To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
Sent: Friday, July 01, 2011 1:08 PM
Subject: Re: [mkars80] Re: Help with winding torroids

I agree with Pauls test method - put your finger under the pins of the
LM386, do you get audio? IE hissing, pops or squeals?

If not check the voltages on all pins.

Steve G6ALU

On 01/07/2011 12:52, vk4apn wrote:
>
>> I cannot get any audio although the initial voltage checks are as spec
and
>> since fitting the display anyway I have set it up ok but still no audio
>> obviously.
> When you say no audio - do you mean:
>
> You cannot hear any signals with an antenna connected (or sig gen etc)
>
> or
>
> The audio stage itself has no output? i.e. with your ear to the speaker do
you hear a faint hissing? If you touch your finger to the lm386 input can
you hear a change?

>
> Really need more concise description to help further.
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> Paul vk4apn
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> Version: 10.0.1388 / Virus Database: 1516/3737 - Release Date: 07/01/11
>
>

[Non-text portions of this message have been removed]

HESH Computer Services Ltd
12 Louis Pearlman Centre
Goulton Street
Hull HU3 4DL

Tel: 0845 1662725
Web: www.hesh.co.uk
Registered in England No. 3003479
VAT No. 647 3679 95

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[Non-text portions of this message have been removed]

2146. Re: [mkars80] Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-02 07:16:48 UTC
From: Steve Drury
Topic: 2127 Message: 2146

OK, from that then we work out the PIC is at fault? Do you want another,
but it won't get to you till Monday / Tuesday?

If so please send me your address by separate email.

Steve G6ALU

On 01/07/2011 22:13, tasmod wrote:
> Steve,
>
> Somewhat messed up now!
>
> In an attempt to double check the pic I repaired my programmer and progged a couple of 16f84s. They worked and checked out OK with simple programs. One to the mkars80 display (separated) which worked fine.
>
> So I tried the 16f818 and loaded up the code and altered it to show my callsign. However first programming sequence is erase then program. Guess what, erased but not programmed, it refuses and errors out with 0fff now as a blank chip . Grrrrr.
>
> My friend is away just now till Monday so I don't have access to another chip.
>
> Rob G4NQX
>
>
> --- In mkars80@..., Steve Drury<g6alu@...> wrote:
>> Rob,
>> If you have a repetitive wave form on the display / micro pins it sounds
>> as though the micro is waiting for the display to be ready for the next
>> byte of information, an extract of the code:
>>
>> busy_check
>> clrwdt ; Clear watchdog
>>
>> bcf Rs ; Set lcd for command
>> mode (PIN 1 of the micro goes low)
>> bsf R_w ; Setup to read busy flag
>> (Pin 6 goes high)
>> bsf Disp_En ; Set En high (Pin 2 goes high)
>> movfw Lcd_Data ; Read upper nibble busy flag (at
>> this point data bit 7 - pin 13 - should be set)
>> movwf Temp
>> bcf Disp_En ; (Pin 2 goes low)
>> bsf Disp_En ; Toggle En to get other
>> nibble (pin 2 goes high)
>> bcf Disp_En ; and discard (pin 2 goes low)

>> btfsc Temp,7 ; Check busy flag, high = busy
>> (checks
>> goto busy_check ; if busy, check again (if pin 7
>> wasn't high go round again!)
>> bsf rp0 ; Select register page 1
>> movlw Portb_Out
>> andwf TRISB,f ; Set for disp output
>> bcf rp0 ; Select register page 0
>> bsf R_w ;
>> return
>>
>> From this you can see that data bit 7 (micro pin 13) should either be
>> permanently high or toggling low - high.
>>
>> I hope this helps?
>>
>> Just one thing, do your friends displays still function in his MKARS80
>> OK after you tried them in yours?
>>
>> Steve G6ALU
>>
>> On 01/07/2011 16:35, tasmod wrote:
>>> Hi Steve,
>>>
>>> Yes, I built the kit as standard and have yet to attach the varactor mod etc.
>>>
>>> I finally broke the pads completely off the board removing a header plug just now, so now both the display leads are directly soldered to ic socket pins underneath. The ribbons are about 4 inches long.
>>>
>>> I rechecked the data lines just using a logic tester. 3 show pulses, 1 shows pulses @ low. (Pin 10 again)
>>>
>>> I scoped the vfo and 10mhz. vfo is approx 4.5v and 10mhz is 2.5v p2p
>>>
>>> The most puzzling part is my friend has an earlier and a later pic chip available. We tested both of those and still no output on display. Both show pin 10 as logic pulses low and dc voltage check at .49v.
>>>
>>> I'm lost for ideas just now.
>>>
>>> Rob G4NQX
>>>
>>>
>>> --- In mkars80@..., "g6alu@"<g6alu@> wrote:
>>>> Hi Rob,
>>>>
>>>> I guess the problem is related to the drilling of the vias but like
>>>> you I have previously repaired these with single strands of wire
>>>> through the PCB.

>>>>
>>>>
>>>>
>>>> It sounds as though you are using a header with ribbon cable? If so
>>>> make sure its no longer than a few inches at least until you have the
>>>> display working.
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>>>>
>>>> Re measure each pin through from the micro to the display, be carefull
>>>> with the display pin numbering as its not logical! Here is a data sheet
>>>> suitable for the diplay you are using, note that many displays have
>>>> different pin-out:
>>>>
>>>>
>>>> http://www.rapidonline.com/netalogue/specs/57-0911.pdf
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>>>> Did you build the MKARS80 as per the instructions before you modded it
>>>> and did it work OK?
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>>>> Steve G6ALU
>>>>
>>>>> ----Original Message----
>>>>> From: tasmod@
>>>>> Date: 01/07/2011 12:58
>>>>> To:<mkars80@...>
>>>>> Subj: [mkars80] Re: Help needed with display problem.
>>>>>
>>>>> Paul,
>>>>>
>>>>> Yes I swung the pot thru its range and am able to dim the
>>>> blocks. I only said this to illustrate that two lines were available on
>>>> the display.
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>>>>> I assumed this was because the enable line was activated, else I
>>>> thought it defaulted to one line.
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>>>>> My friend and I are really stumped. He's more knowledgeable than I and
>>>> he can't see the problem.
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>>>>> I did have various problems with torn tracks around the pcb display
>>>> pads due to stupidly drilling the holes out from the 'topside' this
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>>>> we made small links up and all double check OK for continuity.
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>>>>> I drilled it to fit header pins. Wish I hadn't.
>>>>> Rob
>>>>> --- In mkars80@..., "vk4apn"<pauln@> wrote:
>>>>>>> The display shows two lines of blocks when contrast is turned up

>>>> but apparently no data.
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>>>>>> I am assuming that you have wound contrast pot thru full range?
>>>>>>> Scoping the pic inputs shows vfo and 10mhz signals.
>>>>>> The only issue I have had it the past (with PICs) that presented
>>>> symptoms like yours is when I did not tie the "enable" pin on the
>>>> display either high or low - cant remember which way.
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>>>>>> If the PIC has 10mhz on the Osc pin, then apart from the enable pin,
>>>> the only thing left is the PIC - if all else checks out OK
>>>>
>>>>>> Good Luck
>>>>>> Paul vk4apn
>>>>>>> I can't program another chip as my pic programmer has decided not
>>>> to work as well !!
>>>>
>>>>>>> Any suggestions gratefully received.
>>>>>>> Rob G4NQX
>>>>> ------------------------------------
>>>>> Yahoo! Groups Links
>>>>> http://uk.groups.yahoo.com/group/mkars80/
>>>>>
>>>> required)
>>>>
>>>> uk
>>>>
>>>>> mkars80-unsubscribe@...
>>>>> http://uk.docs.yahoo.com/info/terms.html
>>>>>
>>>
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>>> ------------------------------------
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>

2147. Re: Good Link to Varactor Tuning Mod

Yahoo group: mkars80
Date: 2011-07-02 08:40:20 UTC
From: Philip
Topic: 2144 Message: 2147

I used the info on that link to mod mine a couple of days ago
Works very well an makes the tuning a dream...

I used an MVAM109 varicap on my mod...works perfectly...

REgards
Philip

--- In mkars80@..., "Clive Reynolds" <clive@...> wrote:
>
> Try http://www.pa0rcl.com/PA0RCL/MKARS80.html
>
>
>
> Clive G3GJA / G8EQZ
>
>
>
> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
> Of Ken Pendarvis
> Sent: 01 July 2011 22:45
> To: mkars80@...
> Subject: [mkars80] Good Link to Varactor Tuning Mod
>
>
>
>
>
> Can someone PLEASE send me a good link
> tfor the MKARS80 Varactor tuning mod with the
> 10 turn pot? Thanks.
> (SRI to ask this way, I am trying to recover lost
> User Group Login and Password)
> Sorry Thread Jack.
> 73 and Happy Independence Day Weekend to Yanks!
> TNX ES BCNU, Ken AD6KA kenp@... <mailto:kenp%40socal.rr.com>
>

2148. Re: [mkars80] Re: Good Link to Varactor Tuning Mod

Yahoo group: mkars80
Date: 2011-07-02 09:50:13 UTC
From: Ken Pendarvis
Topic: 2144 Message: 2148

Thanks for the tips Gents.
It's late here, I don't have my MKARS schematic in front of me.
But I just briefly went to the PA0RCL site. WOW, lots of spiffy stuff.
In HIS schematics, are the grey shaded areas
of the schematics the NEW added parts, or the exising parts?
And re: the MVAM109 varicap, has anyone tried the NTE618
as a replacement? There's a local house that sells lots of NTE parts.
(An aquiaintance iof mine says "NTE" stands for "NOT The Equivalent",hihi.)
But I have found they are pretty good, The NTE 278 is a very "hot"
(good) 3w driver NPN type RF transistor a la the 2N5109, etc.
tnx es 73, Ken AD6KA

----- Original Message -----
From: Philip
To: mkars80@...
Sent: Saturday, July 02, 2011 1:40 AM
Subject: [mkars80] Re: Good Link to Varactor Tuning Mod

I used the info on that link to mod mine a couple of days ago
Works very well an makes the tuning a dream...

I used an MVAM109 varicap on my mod...works perfectly...

REgards
Philip

--- In mkars80@..., "Clive Reynolds" <clive@...> wrote:
>
> Try http://www.pa0rcl.com/PA0RCL/MKARS80.html
>
>
>
> Clive G3GJA / G8EQZ
>
>
>
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Ken Pendarvis
> Sent: 01 July 2011 22:45
> To: mkars80@...
> Subject: [mkars80] Good Link to Varactor Tuning Mod
>
>
>
>
>

> Can someone PLEASE send me a good link
> tfor the MKARS80 Varactor tuning mod with the
> 10 turn pot? Thanks.
> (SRI to ask this way, I am trying to recover lost
> User Group Login and Password)
> Sorry Thread Jack.
> 73 and Happy Independence Day Weekend to Yanks!
> TNX ES BCNU, Ken AD6KA kenp@... <mailto:kenp%40socal.rr.com>
>

[Non-text portions of this message have been removed]

2149. Re: Help needed with display problem.

Yahoo group: mkars80
Date: 2011-07-02 10:14:15 UTC
From: tasmod
Topic: 2127 Message: 2149

Hi Steve,
Looking thru the specs for the 818 it appears its my programmer. 818 can do mclr as either adcin or output and mclr needs raising after vpp to set the pin to program. Something my simple serial programmer can't do.

I would appreciate a programmed chip to try. I will mail you separately.

Rob

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> OK, from that then we work out the PIC is at fault? Do you want another,
> but it won't get to you till Monday / Tuesday?
>
> If so please send me your address by separate email.
>
> Steve G6ALU
>
> On 01/07/2011 22:13, tasmod wrote:
> > Steve,
> >
> > Somewhat messed up now!
> >
> > In an attempt to double check the pic I repaired my programmer and progged a couple of 16f84s. They worked and checked out OK with simple programs. One to the mkars80 display (separated) which worked fine.
> >
> > So I tried the 16f818 and loaded up the code and altered it to show my callsign. However first programming sequence is erase then program. Guess what, erased but not programmed, it refuses and errors out with 0fff now as a blank chip . Grrrrr.
> >
> > My friend is away just now till Monday so I don't have access to another chip.
> >
> > Rob G4NQX
> >
> >
> > --- In mkars80@..., Steve Drury<g6alu@> wrote:
> >> Rob,
> >> If you have a repetitive wave form on the display / micro pins it sounds
> >> as though the micro is waiting for the display to be ready for the next
> >> byte of information, an extract of the code:
> >>
> >> busy_check
> >> clrwdt ; Clear watchdog
> >>
> >> bcf Rs ; Set lcd for command

> >> mode (PIN 1 of the micro goes low)
> >> bsf R_w ; Setup to read busy flag
> >> (Pin 6 goes high)
> >> bsf Disp_En ; Set En high (Pin 2 goes high)
> >> movfw Lcd_Data ; Read upper nibble busy flag (at
> >> this point data bit 7 - pin 13 - should be set)
> >> movwf Temp
> >> bcf Disp_En ; (Pin 2 goes low)
> >> bsf Disp_En ; Toggle En to get other
> >> nibble (pin 2 goes high)
> >> bcf Disp_En ; and discard (pin 2 goes low)
> >> btfsc Temp,7 ; Check busy flag, high = busy
> >> (checks
> >> goto busy_check ; if busy, check again (if pin 7
> >> wasn't high go round again!)
> >> bsf rp0 ; Select register page 1
> >> movlw Portb_Out
> >> andwf TRISB,f ; Set for disp output
> >> bcf rp0 ; Select register page 0
> >> bsf R_w ;
> >> return
> >>
> >> From this you can see that data bit 7 (micro pin 13) should either be
> >> permanently high or toggling low - high.
> >>
> >> I hope this helps?
> >>
> >> Just one thing, do your friends displays still function in his MKARS80
> >> OK after you tried them in yours?
> >>
> >> Steve G6ALU
> >>
> >> On 01/07/2011 16:35, tasmod wrote:
> >>> Hi Steve,
> >>>
> >>> Yes, I built the kit as standard and have yet to attach the varactor mod etc.
> >>>
> >>> I finally broke the pads completely off the board removing a header plug just now, so now both the display leads are directly soldered to ic socket pins underneath. The ribbons are about 4 inches long.
> >>>
> >>> I rechecked the data lines just using a logic tester. 3 show pulses, 1 shows pulses @ low. (Pin 10 again)
> >>>
> >>> I scoped the vfo and 10mhz. vfo is approx 4.5v and 10mhz is 2.5v p2p
> >>>
> >>> The most puzzling part is my friend has an earlier and a later pic chip available. We tested both of those and still no output on display. Both show pin 10 as logic pulses low and dc voltage check at .49v.
> >>>

> >>> I'm lost for ideas just now.
> >>>
> >>> Rob G4NQX
> >>>
> >>>
> >>> --- In mkars80@yahoogroups.co.uk, "g6alu@"<g6alu@> wrote:
> >>>> Hi Rob,
> >>>>
> >>>> I guess the problem is related to the drilling of the vias but like
> >>>> you I have previously repaired these with single strands of wire
> >>>> through the PCB.
> >>>>
> >>>>
> >>>>
> >>>> It sounds as though you are using a header with ribbon cable? If so
> >>>> make sure its no longer than a few inches at least until you have the
> >>>> display working.
> >>>>
> >>>>
> >>>>
> >>>> Re measure each pin through from the micro to the display, be carefull
> >>>> with the display pin numbering as its not logical! Here is a data sheet
> >>>> suitable for the diplay you are using, note that many displays have
> >>>> different pin-out:
> >>>>
> >>>>
> >>>> http://www.rapidonline.com/netalogue/specs/57-0911.pdf
> >>>>
> >>>>
> >>>> Did you build the MKARS80 as per the instructions before you modded it
> >>>> and did it work OK?
> >>>>
> >>>> Steve G6ALU
> >>>>
> >>>>> ----Original Message----
> >>>>> From: tasmod@
> >>>>> Date: 01/07/2011 12:58
> >>>>> To:<mkars80@....uk>
> >>>>> Subj: [mkars80] Re: Help needed with display problem.
> >>>>>
> >>>>> Paul,
> >>>>>
> >>>>> Yes I swung the pot thru its range and am able to dim the
> >>>> blocks. I only said this to illustrate that two lines were available on
> >>>> the display.
> >>>>
> >>>>> I assumed this was because the enable line was activated, else I
> >>>> thought it defaulted to one line.
> >>>>
> >>>>> My friend and I are really stumped. He's more knowledgeable than I and

> >>>> he can't see the problem.
> >>>>
> >>>>> I did have various problems with torn tracks around the pcb display
> >>>> pads due to stupidly drilling the holes out from the 'topside' this
> >>>> unfortunately pushed the pads out of the board in circuit side. However
> >>>> we made small links up and all double check OK for continuity.
> >>>>
> >>>>> I drilled it to fit header pins. Wish I hadn't.
> >>>>> Rob
> >>>>> --- In mkars80@..., "vk4apn"<pauln@> wrote:
> >>>>>> The display shows two lines of blocks when contrast is turned up
> >>>> but apparently no data.
> >>>>
> >>>>>> I am assuming that you have wound contrast pot thru full range?
> >>>>>> Scoping the pic inputs shows vfo and 10mhz signals.
> >>>>>> The only issue I have had it the past (with PICs) that presented
> >>>> symptoms like yours is when I did not tie the "enable" pin on the
> >>>> display either high or low - cant remember which way.
> >>>>
> >>>>>> If the PIC has 10mhz on the Osc pin, then apart from the enable pin,
> >>>> the only thing left is the PIC - if all else checks out OK
> >>>>
> >>>>>> Good Luck
> >>>>>> Paul vk4apn
> >>>>>> I can't program another chip as my pic programmer has decided not
> >>>> to work as well !!
> >>>>
> >>>>>> Any suggestions gratefully received.
> >>>>>> Rob G4NQX
> >>>>> ------------------------------------
> >>>>> Yahoo! Groups Links
> >>>>> http://uk.groups.yahoo.com/group/mkars80/
> >>>>>
> >>>> required)
> >>>>
> >>>> uk
> >>>>
> >>>>> mkars80-unsubscribe@...
> >>>>> http://uk.docs.yahoo.com/info/terms.html
> >>>>>
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
> >>>
> >>>
> >>>
> >>>

> >>> -----
> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 10.0.1388 / Virus Database: 1516/3737 - Release Date: 07/01/11
> >>>
> >>>
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1388 / Virus Database: 1516/3737 - Release Date: 07/01/11
> >
> >
>

2150. Re: [mkars80] Re: Good Link to Varactor Tuning Mod

Yahoo group: mkars80
Date: 2011-07-02 14:06:55 UTC
From: John Warner
Topic: 2144 Message: 2150

Yes, the NTE618 will work, as that is what I used.

John
WJ6JW

_____
From: Ken Pendarvis <kenp@...>
To: mkars80@...
Sent: Sat, July 2, 2011 2:50:13 AM
Subject: Re: [mkars80] Re: Good Link to Varactor Tuning Mod

Thanks for the tips Gents.
It's late here, I don't have my MKARS schematic in front of me.
But I just briefly went to the PA0RCL site. WOW, lots of spiffy stuff.
In HIS schematics, are the grey shaded areas
of the schematics the NEW added parts, or the exising parts?
And re: the MVAM109 varicap, has anyone tried the NTE618
as a replacement? There's a local house that sells lots of NTE parts.
(An aquiaintance iof mine says "NTE" stands for "NOT The Equivalent",hihi.)
But I have found they are pretty good, The NTE 278 is a very "hot"
(good) 3w driver NPN type RF transistor a la the 2N5109, etc.
tnx es 73, Ken AD6KA

----- Original Message -----
From: Philip
To: mkars80@...
Sent: Saturday, July 02, 2011 1:40 AM
Subject: [mkars80] Re: Good Link to Varactor Tuning Mod

I used the info on that link to mod mine a couple of days ago
Works very well an makes the tuning a dream...

I used an MVAM109 varicap on my mod...works perfectly...

REgards
Philip

--- In mkars80@yahoogroups.co.uk, "Clive Reynolds" <clive@...> wrote:
>
> Try http://www.pa0rcl.com/PA0RCL/MKARS80.html
>
>
>
> Clive G3GJA / G8EQZ
>
>
>

> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
> Of Ken Pendarvis
> Sent: 01 July 2011 22:45
> To: mkars80@...
> Subject: [mkars80] Good Link to Varactor Tuning Mod
>
>
>
>
>
> Can someone PLEASE send me a good link
> tfor the MKARS80 Varactor tuning mod with the
> 10 turn pot? Thanks.
> (SRI to ask this way, I am trying to recover lost
> User Group Login and Password)
> Sorry Thread Jack.
> 73 and Happy Independence Day Weekend to Yanks!
> TNX ES BCNU, Ken AD6KA kenp@... <mailto:kenp%40socal.rr.com>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2151. RE: [mkars80] Re: Good Link to Varactor Tuning Mod

Yahoo group: mkars80
Date: 2011-07-03 09:48:08 UTC
From: Peter Fraser
Topic: 2144 Message: 2151

And the grey shaded areas in the PA0RCL shematics are NEW parts added.

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

-----Original Message-----
From: mkars80@... [mailto:mkars80@...]On Behalf Of John Warner
Sent: Sunday, 3 July 2011 12:07 AM
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] Re: Good Link to Varactor Tuning Mod

Yes, the NTE618 will work, as that is what I used.

John
WJ6JW

From: Ken Pendarvis <kenp@...>
To: mkars80@...
Sent: Sat, July 2, 2011 2:50:13 AM
Subject: Re: [mkars80] Re: Good Link to Varactor Tuning Mod

Thanks for the tips Gents.
It's late here, I don't have my MKARS schematic in front of me.
But I just briefly went to the PA0RCL site. WOW, lots of spiffy stuff.
In HIS schematics, are the grey shaded areas
of the schematics the NEW added parts, or the exising parts?
And re: the MVAM109 varicap, has anyone tried the NTE618
as a replacement? There's a local house that sells lots of NTE parts.
(An aquiaintance iof mine says "NTE" stands for "NOT The Equivalent",hihi.)
But I have found they are pretty good, The NTE 278 is a very "hot"
(good) 3w driver NPN type RF transistor a la the 2N5109, etc.
tnx es 73, Ken AD6KA

----- Original Message -----
From: Philip
To: mkars80@...
Sent: Saturday, July 02, 2011 1:40 AM
Subject: [mkars80] Re: Good Link to Varactor Tuning Mod

I used the info on that link to mod mine a couple of days ago
Works very well an makes the tuning a dream...

I used an MVAM109 varicap on my mod...works perfectly...

REgards
Philip

--- In mkars80@..., "Clive Reynolds" <clive@...> wrote:
>
> Try http://www.pa0rcl.com/PA0RCL/MKARS80.html
>
>
>
> Clive G3GJA / G8EQZ
>
>
>
> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
> Of Ken Pendarvis
> Sent: 01 July 2011 22:45
> To: mkars80@...
> Subject: [mkars80] Good Link to Varactor Tuning Mod
>
>
>
>
>
> Can someone PLEASE send me a good link
> tfor the MKARS80 Varactor tuning mod with the
> 10 turn pot? Thanks.
> (SRI to ask this way, I am trying to recover lost
> User Group Login and Password)
> Sorry Thread Jack.
> 73 and Happy Independence Day Weekend to Yanks!
> TNX ES BCNU, Ken AD6KA kenp@... <mailto:kenp%40socal.rr.com>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3740 - Release Date: 07/02/11

[Non-text portions of this message have been removed]

2152. Re: Prob: wrong frequency 000,000

Yahoo group: mkars80
Date: 2011-07-04 13:55:58 UTC
From: jackthewhistler
Topic: 2136 Message: 2152

Hey Steve,

thank you very much for your support.
It was a bad solder point on L5 !
It is ok now and i'll do the final adjustment on the weekend.

--- In mkars80@..., "hamlab3" <g6alu@...> wrote:
>
> Im not sure what you mean by "No matter how often i turn the regulators".
>
> It looks as the micro is not getting the VFO signal, if you can reveive stations check the voltages on Q8 if you cannot receive anything check the voltages on Q11 and Q12 as the VFO may not be running - check also the soldering on L5.
>
> Steve G6ALU
>
> --- In mkars80@..., "jackthewhistler" <sebastian@> wrote:
> >
> > I_m nearly done with the build up and everything seems to be ok -so far.
> > voltages look ok.
> > But, the display shows frequency "000,000 12,3V U "
> > No matter how often i turn the regulators, what could that be ?
> >
>

2153. Need less bass and more treble

Yahoo group: mkars80
Date: 2011-07-04 14:50:57 UTC
From: Philip
Topic: 2153 Message: 2153

Had a couple of reports that my signal would be more readable
if the mic had less bass and more treble...

It's a cheap electret insert from Maplin..

Any ideas what to tweak in the mic amp to acieve this?

Thought of maybe reducing the value of C10 or maybe increasing
R13 then shunting it with say a 100n or some sutch..

Probably both ideas are silly but what do you think?

Regards

Philip G4JVF

2154. Re: [mkars80] Need less bass and more treble

Yahoo group: mkars80
Date: 2011-07-04 18:09:47 UTC
From: Steve Drury
Topic: 2153 Message: 2154

Philip,

Before you look for an audio cure its wise to check your BFO frequency
is 10MHz. How does it sound on receive? When the BFO is adjusted
correctly the received sound has quite a bit of treble (not much bass),
if the BFO is simply adjusted for armchair copy it will often be set wrong.

Steve G6ALU

On 04/07/2011 15:50, Philip wrote:
> Had a couple of reports that my signal would be more readable
> if the mic had less bass and more treble...
>
> It's a cheap electret insert from Maplin..
>
> Any ideas what to tweak in the mic amp to acieve this?
>
> Thought of maybe reducing the value of C10 or maybe increasing
> R13 then shunting it with say a 100n or some sutch..
>
> Probably both ideas are silly but what do you think?
>
>
> Regards
>
> Philip G4JVF
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1388 / Virus Database: 1516/3742 - Release Date: 07/03/11
>
>

2155. Re: Need less bass and more treble

Yahoo group: mkars80
Date: 2011-07-04 20:49:54 UTC
From: Philip
Topic: 2153 Message: 2155

Hi Steve....

Hadn't thought about that.
Received signals sound OK but I will be sure to double check that.

To be honest, out of the few QSO's I've had so far, more people said the audio was OK than those who mentioned the bass.
A guy who was giving me the most feedback said it was fine but being a small signal under noisy conditions, he thought a more treble audio would make copy easier under the conditions...

I reckon it's probably fine anyway but I see his point.

Thanks for the suggestion, as I say, that will be my next thing to check the BFO is set OK..

Might try a standard mic as well for comparison.
I presume for a non electret mike I just lift the resistor feeding voltage to the mic?

Regards
Philip G4JVF
--- In mkars80@yahoogroups.co.uk, Steve Drury <g6alu@...> wrote:
>
> Philip,
>
> Before you look for an audio cure its wise to check your BFO frequency
> is 10MHz. How does it sound on receive? When the BFO is adjusted
> correctly the received sound has quite a bit of treble (not much bass),
> if the BFO is simply adjusted for armchair copy it will often be set wrong.
>
> Steve G6ALU
>
> On 04/07/2011 15:50, Philip wrote:
> > Had a couple of reports that my signal would be more readable
> > if the mic had less bass and more treble...
> >
> > It's a cheap electret insert from Maplin..
> >
> > Any ideas what to tweak in the mic amp to acieve this?
> >
> > Thought of maybe reducing the value of C10 or maybe increasing
> > R13 then shunting it with say a 100n or some sutch..
> >
> > Probably both ideas are silly but what do you think?
> >
> >

> > Regards
> >
> > Philip G4JVF
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1388 / Virus Database: 1516/3742 - Release Date: 07/03/11
> >
> >
>

2156. Re: Need less bass and more treble

Yahoo group: mkars80
Date: 2011-07-04 21:37:52 UTC
From: Philip
Topic: 2153 Message: 2156

Steve

I've tweaked the BFO to exactly 10Mhz by loose coupling it
to my SDR receiver which has been calibrated zero beat to a time signal.

It was out by a couple of Khz so at least now it's spot on.
Will try again then maybe try different mics...

Thanks again for your help

Regards
Philip G4JVF

--- In mkars80@..., Steve Drury <g6alu@...> wrote:
>
> Philip,
>
> Before you look for an audio cure its wise to check your BFO frequency
> is 10MHz. How does it sound on receive? When the BFO is adjusted
> correctly the received sound has quite a bit of treble (not much bass),
> if the BFO is simply adjusted for armchair copy it will often be set wrong.
>
> Steve G6ALU
>
> On 04/07/2011 15:50, Philip wrote:
> > Had a couple of reports that my signal would be more readable
> > if the mic had less bass and more treble...
> >
> > It's a cheap electret insert from Maplin..
> >
> > Any ideas what to tweak in the mic amp to acieve this?
> >
> > Thought of maybe reducing the value of C10 or maybe increasing
> > R13 then shunting it with say a 100n or some sutch..
> >
> > Probably both ideas are silly but what do you think?
> >
> >
> > Regards
> >
> > Philip G4JVF
> >
> >
> >
> > ------------------------------------
> >

> > Yahoo! Groups Links
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> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1388 / Virus Database: 1516/3742 - Release Date: 07/03/11
> >
> >
>

2157. Need help adjusting PA Bias.

Yahoo group: mkars80
Date: 2011-07-05 15:04:04 UTC
From: Rick
Topic: 2157 Message: 2157

Hello,

Just finished my MKARS80 and now busy with tuning the rig.

Everything goes fine until now. I need to adjust the current of the rig in TX mode with R2. Measure the value in TX mode and increase it with 50 mA.

The problem is that when i push the PTT switch, the meter reads 246 mA but tuning R2 doesn't make any diffence. I can turn it from counter-clockwise until clockwise but the meter stands still on 246 mA.

When i whistle in the mike the current increases untill .9 A (Almost 1A)

What could be wrong? Where do I have to look?

With kind regards,
Rick, PE2AAB

2158. Display working at last :-)

Yahoo group: mkars80
Date: 2011-07-05 20:38:28 UTC
From: Rob Lane
Topic: 2158 Message: 2158

Well what a trial that was.

Combination of things:-

The pic chip was duff.
The pic chip socket was duff.(Yes the socket)

I tried my pic chip in my friends working kit and the display was blank.

So that showed that to be duff.

Steves kindly supplied replacement worked nicely in my friends kit, so now I had a working chip.

Tried the working chip in mine and again two lines of dim blocks showing.

Cue much head scratching. Removing the chip and testing all lines again for the umpteenth time showed no shorts in any direction. Either pin to pin or to ground.

By now all that was left was the socket. Can't be can it? We tested every line and connection as clear!

OK bite bullet. Cutters out and carefully cut apart the socket and leave pins to see if anything's there.

No, nothing to be seen.

Desoldered all the pin pieces. Fitted a turned socket pin row instead of a socket. Fit working chip.

Switch on with baited breath.....

Success !!! A fully working display, one happy man.

I and friend still cannot work out what it was in the socket but it appeared to have loaded the data lines but defied continuity tests ?

Finally I changed the kit display to a newly arrived blue backlit version. Tested again and still working.

A big thanks to Steve for his generosity and others for their suggestions.

Now it's on to boxing up and transmitter tests.

Rob G4NQX

2159. Re: [mkars80] Need help adjusting PA Bias.

Yahoo group: mkars80
Date: 2011-07-05 21:13:59 UTC
From: Steve Drury
Topic: 2157 Message: 2159

Rick,
It sound as though the PA is working so you must have a fault in the
bias circuit, return the control anti-clockwise until you find the fault.

Whilst holding the PTT down check for volts on D1 - it should be about
5.6V, if OK check R2 with a meter to make sure it isn't damaged. Check
he area for short circuits on top and below the PCB.

Regards,
Steve G6ALU

On 05/07/2011 16:04, Rick wrote:
> Hello,
>
> Just finished my MKARS80 and now busy with tuning the rig.
>
> Everything goes fine until now. I need to adjust the current of the rig in TX mode with R2. Measure the value in TX mode and increase it with 50 mA.
>
> The problem is that when i push the PTT switch, the meter reads 246 mA but tuning R2 doesn't make any diffence. I can turn it from counter-clockwise until clockwise but the meter stands still on 246 mA.
>
> When i whistle in the mike the current increases untill .9 A (Almost 1A)
>
> What could be wrong? Where do I have to look?
>
> With kind regards,
> Rick, PE2AAB
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1388 / Virus Database: 1516/3745 - Release Date: 07/05/11
>
>

2160. Re: [mkars80] Display working at last :-)

Yahoo group: mkars80
Date: 2011-07-05 21:17:04 UTC
From: Steve Drury
Topic: 2158 Message: 2160

I'm glad its working Rob; I've not had a faulty socket either - by their design not much can go wrong. I actually prefer the side contact type to the turned pin type.

All the best,
Steve G6ALU

On 05/07/2011 21:38, Rob Lane wrote:
> Well what a trial that was.
>
> Combination of things:-
>
> The pic chip was duff.
> The pic chip socket was duff.(Yes the socket)
>
> I tried my pic chip in my friends working kit and the display was blank.
>
> So that showed that to be duff.
>
> Steves kindly supplied replacement worked nicely in my friends kit, so now I had a working chip.
>
> Tried the working chip in mine and again two lines of dim blocks showing.
>
> Cue much head scratching. Removing the chip and testing all lines again for the umpteenth time showed no shorts in any direction. Either pin to pin or to ground.
>
> By now all that was left was the socket. Can't be can it? We tested every line and connection as clear!
>
> OK bite bullet. Cutters out and carefully cut apart the socket and leave pins to see if anything's there.
>
> No, nothing to be seen.
>
> Desoldered all the pin pieces. Fitted a turned socket pin row instead of a socket. Fit working chip.
>
>
> Switch on with baited breath.....
>
> Success !!! A fully working display, one happy man.
>
> I and friend still cannot work out what it was in the socket but it appeared to have loaded the data lines but defied continuity tests ?

>
> Finally I changed the kit display to a newly arrived blue backlit version. Tested again and still working.
>
> A big thanks to Steve for his generosity and others for their suggestions.
>
> Now it's on to boxing up and transmitter tests.
>
> Rob G4NQX
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
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> -----
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> Version: 10.0.1388 / Virus Database: 1516/3745 - Release Date: 07/05/11
>
>

2161. Template measurements

Yahoo group: mkars80
Date: 2011-07-06 11:20:35 UTC
From: owenwilliams64
Topic: 2161 Message: 2161

When I print out the drilling template from the internet the dimensions on the printed drawing do not match the written measurements, ie the length 142.3mm is actually 138mm. Any help would be gratfully appreciated.

2162. RE: [mkars80] Template measurements

Yahoo group: mkars80
Date: 2011-07-06 11:48:41 UTC
From: Peter Fraser
Topic: 2161 Message: 2162

Did you download the template, open it in Adobe Acrobat and then print it with the paper size set to A4 and the page scaling set to 'none'?

If you don't have the page scaling set to 'none' the print may be the wrong size.

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

Printout with Adobe Acrobat reader, set paper size set to A4 and page scaling set to "none". Stick onto case as described in construction manual and use as a drilling template for the holes and cutout.

-----Original Message-----
From: mkars80@yahoogroups.co.uk [mailto:mkars80@...]On Behalf Of owenwilliams64
Sent: Wednesday, 6 July 2011 9:21 PM
To: mkars80@...
Subject: [mkars80] Template measurements

When I print out the drilling template from the internet the dimensions on the printed drawing do not match the written measurements, ie the length 142.3mm is actually 138mm. Any help would be gratfully appreciated.

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3746 - Release Date: 07/05/11

[Non-text portions of this message have been removed]

2163. RE: [mkars80] Template measurements

Yahoo group: mkars80
Date: 2011-07-06 16:40:21 UTC
From: Owen Williams
Topic: 2161 Message: 2163

Many thanks problem solved, it was printing 97.5% of full size

Owen MW0GMH

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Peter Fraser
Sent: 06 July 2011 12:49
To: mkars80@...
Subject: RE: [mkars80] Template measurements

Did you download the template, open it in Adobe Acrobat and then print it
with the paper size set to A4 and the page scaling set to 'none'?

If you don't have the page scaling set to 'none' the print may be the wrong
size.

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

Printout with Adobe Acrobat reader, set paper size set to A4 and page
scaling set to "none". Stick onto case as described in construction manual
and use as a drilling template for the holes and cutout.

-----Original Message-----
From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>]On
Behalf Of owenwilliams64
Sent: Wednesday, 6 July 2011 9:21 PM
To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
Subject: [mkars80] Template measurements

When I print out the drilling template from the internet the dimensions on
the printed drawing do not match the written measurements, ie the length
142.3mm is actually 138mm. Any help would be gratfully appreciated.

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3746 - Release Date: 07/05/11

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2164. Varactor diodes

Yahoo group: mkars80
Date: 2011-07-08 11:29:10 UTC
From: Rob Lane
Topic: 2164 Message: 2164

Where's a good source for the MVAM109 diodes ?

I've tried Birketts, Bardwells etc.

Only one ebay seller in the US and he won't sell international. Can't blame him after my ebay experiences with international selling.

2165. Power level control.

Yahoo group: mkars80
Date: 2011-07-08 11:31:10 UTC
From: Rob Lane
Topic: 2165 Message: 2165

I've read so much and trawled the net for information that I'm now lost some of what I read.

I'm sure i read somewhere about a power level control mod involving a transistor and pot.

Anyone help?

Rob G4NQX

2166. Re: Varactor diodes

Yahoo group: mkars80
Date: 2011-07-08 12:00:46 UTC
From: K.Greenough
Topic: 2164 Message: 2166

Hello Rob,
If you're a member of the GQRP club you can get MVAM109 diodes
from club sales.
73 Ken g8beq

[Non-text portions of this message have been removed]

2167. Re: Varactor diodes

Yahoo group: mkars80
Date: 2011-07-08 12:50:52 UTC
From: g4gcl
Topic: 2164 Message: 2167

Hi.

If you are a member of the GQRP club (& if not why not [;)]) then
Graham has them at 50p plus postage max 2 per order.

I bought 4 from a UK Ebay seller some time back but I can't remember the
price.

73,

John.

--- In mkars80@..., "Rob Lane" <tasmod@...> wrote:
>
> Where's a good source for the MVAM109 diodes ?
>
> I've tried Birketts, Bardwells etc.
>
> Only one ebay seller in the US and he won't sell international. Can't
blame him after my ebay experiences with international selling.
>

[Non-text portions of this message have been removed]

2168. Re: Varactor diodes

Yahoo group: mkars80
Date: 2011-07-08 13:02:35 UTC
From: g4gcl
Topic: 2164 Message: 2168

Hi.

Just found the packet & the diodes were from Jon@RFPLUS
<mailto:Jon@RFPLUS> which is a shop on Ebay(UK). I looked at his
current list and he hasn't any listed but it may be worth asking if he
has any.

73,

John.

--- In mkars80@..., "Rob Lane" <tasmod@...> wrote:
>
> Where's a good source for the MVAM109 diodes ?
>
> I've tried Birketts, Bardwells etc.
>
> Only one ebay seller in the US and he won't sell international. Can't
blame him after my ebay experiences with international selling.
>

[Non-text portions of this message have been removed]

2169. Re: Varactor diodes

Yahoo group: mkars80
Date: 2011-07-08 13:30:51 UTC
From: Rob Lane
Topic: 2164 Message: 2169

Thanks for that, I've sent him a message to see if he has any left.

Hmm. Bit cheeky to join QRP Club just to get diodes. however may do so as I've always liked the odd article I've read from the Club.
A link from their site took me to G4FON site and he has an interesting loop design for qrp on 20m. This would suit my BitX20 rig.

Rob G4NQX

--- In mkars80@....uk, "g4gcl" <john@...> wrote:
>
>
>
> Hi.
>
> Just found the packet & the diodes were from Jon@RFPLUS
> <mailto:Jon@RFPLUS> which is a shop on Ebay(UK). I looked at his
> current list and he hasn't any listed but it may be worth asking if he
> has any.
>
> 73,
>
> John.
>
>
>
> --- In mkars80@..., "Rob Lane" <tasmod@> wrote:
> >
> > Where's a good source for the MVAM109 diodes ?
> >
> > I've tried Birketts, Bardwells etc.
> >
> > Only one ebay seller in the US and he won't sell international. Can't
> blame him after my ebay experiences with international selling.
> >
>
>
>
>
> [Non-text portions of this message have been removed]
>

2170. RE: [mkars80] Re: Varactor diodes

Yahoo group: mkars80
Date: 2011-07-08 15:20:12 UTC
From: Allan Horsfield
Topic: 2164 Message: 2170

I just bought a MVAM109/NTE618 from the US on ebay from Atlantic Electro, seller fxpel. Just over ?4 inc p&p, he has moreAllan M5ALUc ElectroAtlantic Electro
To: mkars80@...
From: tasmod@...
Date: Fri, 8 Jul 2011 13:30:51 +0000
Subject: [mkars80] Re: Varactor diodes

Thanks for that, I've sent him a message to see if he has any left.

Hmm. Bit cheeky to join QRP Club just to get diodes. however may do so as I've always liked the odd article I've read from the Club.

A link from their site took me to G4FON site and he has an interesting loop design for qrp on 20m. This would suit my BitX20 rig.

Rob G4NQX

--- In mkars80@..., "g4gcl" <john@...> wrote:

>

>

>

> Hi.

>

> Just found the packet & the diodes were from Jon@RFPLUS

> <mailto:Jon@RFPLUS> which is a shop on Ebay(UK). I looked at his

> current list and he hasn't any listed but it may be worth asking if he

> has any.

>

> 73,

>

> John.

>

>

>

> --- In mkars80@..., "Rob Lane" <tasmod@> wrote:

> >

> > Where's a good source for the MVAM109 diodes ?

> >

> > I've tried Birketts, Bardwells etc.

> >

> > Only one ebay seller in the US and he won't sell international. Can't

> blame him after my ebay experiences with international selling.

> >

>

>

>

>

> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

2171. RE: [mkars80] Varactor diodes

Yahoo group: mkars80
Date: 2011-07-08 21:31:09 UTC
From: Frank
Topic: 2164 Message: 2171

I got my MVAM109s from AWATRONICS

http://www.awatronic.co.uk/mvam109/prod_3250.html

Frank

M0JSZ

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Rob Lane
Sent: 08 July 2011 12:29
To: mkars80@...
Subject: [mkars80] Varactor diodes

Where's a good source for the MVAM109 diodes ?

I've tried Birketts, Bardwells etc.

Only one ebay seller in the US and he won't sell international. Can't blame
him after my ebay experiences with international selling.

[Non-text portions of this message have been removed]

2172. Bouquets mostly - Brickbats minimal !!!

Yahoo group: mkars80
Date: 2011-07-09 23:35:40 UTC
From: vk4apn
Topic: 2172 Message: 2172

I feel compelled to write and express sincere admiration for the team that put together the MKARS80 project.

I am an experienced constructor and builder and would rate this kit as a real winner. Everything about it is well done....superb PCB, top rate manual, all parts fitted the PCB footprints, a STABLE vfo arrangement. It also works very well.

I would not normally build such a high component count kit in the order the manual sets out, but I bit the bullet and followed the order as written - except, I tested all active devices and measured all coils, etc before installing on the board.

The only Brickbat - would be to change the tuning capacitor (to multiturn varicap and possibly add in some crude AGC arrangement per some of the examples in the files section.

An absolute delight to build and use - I will be spreading the news.

Paul vk4apn

2173. Re: Bouquets mostly - Brickbats minimal !!!

Yahoo group: mkars80
Date: 2011-07-10 10:10:05 UTC
From: Philip
Topic: 2172 Message: 2173

I would second everything you say Paul..
Recently built mine and modded it to varicap tuning.

Got my kit yesterday for building the CW adapter and I'm amazed at
the quality of both these kits.
The PCBs in particular are superb...don't know how they put all this
stuff in bags for the low price the kits come in at.

Best value kit on the market I reckon and it all works nicely to boot..

Regards
Philip G4JVF

--- In mkars80@..., "vk4apn" <pauln@...> wrote:
>
> I feel compelled to write and express sincere admiration for the team that put together the MKARS80 project.
>
> I am an experienced constructor and builder and would rate this kit as a real winner. Everything about it is well done....superb PCB, top rate manual, all parts fitted the PCB footprints, a STABLE vfo arrangement. It also works very well.
>
> I would not normally build such a high component count kit in the order the manual sets out, but I bit the bullet and followed the order as written - except, I tested all active devices and measured all coils, etc before installing on the board.
>
> The only Brickbat - would be to change the tuning capacitor (to multiturn varicap and possibly add in some crude AGC arrangement per some of the examples in the files section.
>
> An absolute delight to build and use - I will be spreading the news.
>
> Paul vk4apn
>

2174. CW adapter

Yahoo group: mkars80
Date: 2011-07-10 21:04:38 UTC
From: Philip
Topic: 429 Message: 2174

Had fun today putting together my CW adapter kit..
Great value for money it has to be said.

Put it in a cheap alulinium box from Maplin, a bit smaller
than a similar box I put the MKARS 80 in.

All went OK and worked first time.
Plenty of space to add a resistive SWR bridge and maybe a QRP
ATU using toroids.

Just got to brush up on my CW but now I have a reason to get stuck in.

Nobody laugh at my bodged sideswipe key :)
It works better than it looks..

As usual some more pictures in my photo album on here (G4JVF)

Regards
Philip G4JVF

2175. Re: CW adapter and THE FAN IN THE BOX

Yahoo group: mkars80
Date: 2011-07-10 23:18:11 UTC
From: vk4apn
Topic: 429 Message: 2175

Nice work - I wonder what is the basis of the added fan? Did you find it was needed?

The reason I ask is that I note on my unit (MKARS80 only)that it will sit all day with the + sign only and does not budge on freq at all. During transmit, however, I notice after a very short period the bars start to appear and eventually the lock is lost - so I am assuming that there is a heat effect going on - but nothing obvious to me so far. The heat generating components are physically well removed from the VFO circuitry. Unit is boxed up and not open the the atmosphere. So I keep overs very short until I get on top of it!!

The ambient temperature in the tropics is usually 25 C at this time of year (dry season) and will be 30 C during the wet.

All part of the fun

Paul vk4apn

2176. Re: CW adapter and THE FAN IN THE BOX

Yahoo group: mkars80
Date: 2011-07-11 11:49:39 UTC
From: Philip
Topic: 429 Message: 2176

Hi Paul

No, not had any stability problems but preempted that the PA
would get warmer when I got round to using it on CW.
So, whilst I was drilling the case for the receiver, I put in a fan (switched) just in case....
It's a 12 volt fan but fed via 200 ohm resitor so it spins but doesn't
run fast enough to whine...
The fan is directly over the PA....

Great fun this range of kits...

Regards
Philip G4JVF

--- In mkars80@..., "vk4apn" <pauln@...> wrote:
>
>
>
>
>
>
>
>
> Nice work - I wonder what is the basis of the added fan? Did you find it was needed?
>
> The reason I ask is that I note on my unit (MKARS80 only)that it will sit all day with the + sign only and does not budge on freq at all. During transmit, however, I notice after a very short period the bars start to appear and eventually the lock is lost - so I am assuming that there is a heat effect going on - but nothing obvious to me so far. The heat generating components are physically well removed from the VFO circuitry. Unit is boxed up and not open the the atmosphere. So I keep overs very short until I get on top of it!!
>
> The ambient temperature in the tropics is usually 25 C at this time of year (dry season) and will be 30 C during the wet.
>
> All part of the fun
>
> Paul vk4apn
>

2177. Re: CW adapter

Yahoo group: mkars80
Date: 2011-07-11 15:44:11 UTC
From: Philip
Topic: 429 Message: 2177

All tidied up and tested today...
Only mod I've done to the CW adapter is to increase the value
of C22 from 10uF to 47uF to get a longer hang time.
Only did this because my CW is painfully slow at the moment and
this stops lots of relay clattering :)

--- In mkars80@..., "Philip" <pcteee@...> wrote:
>
> Had fun today putting together my CW adapter kit..
> Great value for money it has to be said.
>
> Put it in a cheap alulinium box from Maplin, a bit smaller
> than a similar box I put the MKARS 80 in.
>
> All went OK and worked first time.
> Plenty of space to add a resistive SWR bridge and maybe a QRP
> ATU using toroids.
>
> Just got to brush up on my CW but now I have a reason to get stuck in.
>
> Nobody laugh at my bodged sideswipe key :)
> It works better than it looks..
>
> As usual some more pictures in my photo album on here (G4JVF)
>
>
> Regards
> Philip G4JVF
>

2178. RE: [mkars80] Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-07-13 09:31:28 UTC
From: John Martin
Topic: 2111 Message: 2178

Hi Paul,

Only just found time to look at the project again.

What I meant was that after following the initial testing as detailed on page 11 all voltages were as per spec however the para that starts "connect Antenna" advised that some noise should be heard only I got nothing indicating incoming signals. I have tested the input to the audio amp and there is a change (mains hum) so that seems ok.

Obviously something is not right but as yet I have not found out what. Something I saw in the forum was that a faulty torroid could be the problem although I may have taken this out of context but I wanted to know which one was most likely to save wasting time and effort in the wrong place. I doubt it's a faulty component and I have taken great care with the soldering but the torroids were another matter.

However my next job is to go round and do the voltage checks to see if anything comes to light.

Regards,

John

G8XLB

From: mkars80@... [mailto:mkars80@...] On Behalf
Of vk4apn
Sent: 01 July 2011 12:53
To: mkars80@...
Subject: [mkars80] Re: Help with winding torroids

> I cannot get any audio although the initial voltage checks are as spec and
> since fitting the display anyway I have set it up ok but still no audio
> obviously.

When you say no audio - do you mean:

You cannot hear any signals with an antenna connected (or sig gen etc)

or

The audio stage itself has no output? i.e. with your ear to the speaker do you hear a faint hissing? If you touch your finger to the lm386 input can you hear a change?

Really need more concise description to help further.

Paul vk4apn

[Non-text portions of this message have been removed]

2179. Re: [mkars80] Re: Help with winding torroids

Yahoo group: mkars80
Date: 2011-07-13 19:24:35 UTC
From: Steve Drury
Topic: 2111 Message: 2179

Hello John,

The most common problem is soldering on the mixer transformers - 2
transformers on the first mixer and one in the BFO.

Make sure they are soldered with a very hot iron to break down the
enamel insulation.

Regards,
Steve G6ALU

On 13/07/2011 10:31, John Martin wrote:
> Hi Paul,
>
>
>
> Only just found time to look at the project again.
>
> What I meant was that after following the initial testing as detailed on
> page 11 all voltages were as per spec however the para that starts "connect
> Antenna" advised that some noise should be heard only I got nothing
> indicating incoming signals. I have tested the input to the audio amp and
> there is a change (mains hum) so that seems ok.
>
> Obviously something is not right but as yet I have not found out what.
> Something I saw in the forum was that a faulty torroid could be the problem
> although I may have taken this out of context but I wanted to know which one
> was most likely to save wasting time and effort in the wrong place. I doubt
> it's a faulty component and I have taken great care with the soldering but
> the torroids were another matter.
>
> However my next job is to go round and do the voltage checks to see if
> anything comes to light.
>
>
>
> Regards,
>
>
>
> John
>
> G8XLB
>
>
>

> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of vk4apn
> Sent: 01 July 2011 12:53
> To: mkars80@...
> Subject: [mkars80] Re: Help with winding torroids
>
>
>
>
>
>
>
>> I cannot get any audio although the initial voltage checks are as spec and
>> since fitting the display anyway I have set it up ok but still no audio
>> obviously.
> When you say no audio - do you mean:
>
> You cannot hear any signals with an antenna connected (or sig gen etc)
>
> or
>
> The audio stage itself has no output? i.e. with your ear to the speaker do
> you hear a faint hissing? If you touch your finger to the lm386 input can
> you hear a change?
>
> Really need more concise description to help further.
>
> Paul vk4apn
>
>
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>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
>
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com

> Version: 10.0.1390 / Virus Database: 1516/3762 - Release Date: 07/13/11
>
>

2180. Having fun

Yahoo group: mkars80
Date: 2011-07-13 19:24:57 UTC
From: Philip
Topic: 2180 Message: 2180

Got 22 QSOs under the belt of my MKARS80 so far...
Great fun :)

2181. Can someone help with whereabouts for a soldering iron element.

Yahoo group: mkars80
Date: 2011-07-13 21:39:47 UTC
From: lc0tc
Topic: 2181 Message: 2181

I was about to start winding the toroids, coils and transformers, of my MKARS80 kit when my old and trusted Litesold 15W iron expired. The element had burnt out after only 25 years or so.
This was the sort with a red plastic handle and REAL unplated bits, and the elelment was/is covered with a layer of steel wire wound on. I had fitted a 220v element to suit the mains voltage where I live and was very comfortable with this tool.

I use Weller LR21s at work and so am used to ironplated bits and temp regulated irons but I'm having difficulty in getting used to such an iron in my own shack, I miss the speed with which the solder melted once applied to a plain copper bit.
Does anybody have knowledge of a source for elements for these irons? I have a 240V one but this is equivalent to maybe 12 or 10W when supplied from 225V, and just isn't hot enough.
As far as I can find out from the all pervading internet, Litesold do not sell anymore or even produce.

Peter

2182. Re: [mkars80] Can someone help with whereabouts for a soldering iron element.

Yahoo group: mkars80
Date: 2011-07-13 22:21:53 UTC
From: G4DFV
Topic: 2181 Message: 2182

I would recommend at least a 30 Watt iron when dealing with the MKARS80 toroids in order to melt the enamel on the wires.
Best to "tin" the ends of the toroid wires before soldering them into the PCB.

Best 73

Duncan G4DFV

[Non-text portions of this message have been removed]

2183. Re: Can someone help with whereabouts for a soldering iron element.

Yahoo group: mkars80
Date: 2011-07-13 23:12:29 UTC
From: vk4apn
Topic: 2181 Message: 2183

> Best to "tin" the ends of the toroid wires before soldering them into the PCB.

I would say it is essential to tin all the enamel clad wires before you solder them to the PCB..... a syringe of SMD flux paste (a must have for your soldering kit) allows you to easily place a very small amount of flux directly and ensure a 100% confident joint.

Paul vk4apn

> Best 73
>
> Duncan G4DFV

2184. Pre - tinning enamel clad copper wires

Yahoo group: mkars80
Date: 2011-07-14 08:07:08 UTC
From: vk4apn
Topic: 2184 Message: 2184

After I posted my comments re tinning enamel wires prior to soldering into the PCB, I thought I should explain my thoughts a little more clearly......

Over the years I have used a multitude of these wires - some retain their enamel even after a nuclear blast, others lose their enamel just by looking at them, some you have to scrape off with a Stanley knife and everything in between those scenarios.

Mostly these days, the majority of enamel coated wires are designed to melt the enamel away at a certain temperature and leave you with a nice shiny easy to solder wire. Now, if you trust that soldering the coated wire directly into the PCB will burn away the enamel coating and give you a 100% perfect joint - it may well do that - or NOT. But it is not easy to tell visually 100% of the time. Also I measure the inductance of newly wound L's before fitting so I need a nice shiny wire to connect my LC meter.

So I would suggest that once you have wound the toroid / transformer, trim the leads, using your soldering iron loaded with some solder burn off the enamel until you have a nice shiny bright wire. Then mount onto the PCB so that the nice shiny bright wire is thru the PCB, then solder - ensure that there is still enamel insulation left to prevent component side shorts.

It is also possible that you can scrape off the insulation when winding the inductor - so some care is needed, if you think that might have happened I would start again - to avoid latter painful fault finding.

My .02c worth....Paul vk4apn

2185. Re: Pre - tinning enamel clad copper wires

Yahoo group: mkars80
Date: 2011-07-14 09:56:00 UTC
From: Philip
Topic: 2184 Message: 2185

Sound advice Paul...

Must admit I always scrape my coil ends no matter what
type of coating just to be sure.
Never had a failure yet but it adds a bit of time to the build...

Regards
Philip G4JVF

--- In mkars80@yahoogroups.co.uk, "vk4apn" <pauln@...> wrote:
>
> After I posted my comments re tinning enamel wires prior to soldering into the PCB, I thought I should explain my thoughts a little more clearly......
>
> Over the years I have used a multitude of these wires - some retain their enamel even after a nuclear blast, others lose their enamel just by looking at them, some you have to scrape off with a Stanley knife and everything in between those scenarios.
>
> Mostly these days, the majority of enamel coated wires are designed to melt the enamel away at a certain temperature and leave you with a nice shiny easy to solder wire. Now, if you trust that soldering the coated wire directly into the PCB will burn away the enamel coating and give you a 100% perfect joint - it may well do that - or NOT. But it is not easy to tell visually 100% of the time. Also I measure the inductance of newly wound L's before fitting so I need a nice shiny wire to connect my LC meter.
>
> So I would suggest that once you have wound the toroid / transformer, trim the leads, using your soldering iron loaded with some solder burn off the enamel until you have a nice shiny bright wire. Then mount onto the PCB so that the nice shiny bright wire is thru the PCB, then solder - ensure that there is still enamel insulation left to prevent component side shorts.
>
> It is also possible that you can scrape off the insulation when winding the inductor - so some care is needed, if you think that might have happened I would start again - to avoid latter painful fault finding.
>
> My .02c worth....Paul vk4apn
>

2186. Re: Pre - tinning enamel clad copper wires

Yahoo group: mkars80
Date: 2011-07-14 23:29:03 UTC
From: Mike Lichtman
Topic: 2184 Message: 2186

I usually just use a fine coated sandpaper. I tear off a small piece (1" square or so) and just fold it around the wire end and pull off. Several times and the wire is shinny without the danger of cutting it with the knife blade. Works every time. 73 Mike KF6KXG

2187. Messing with the mic amp

Yahoo group: mkars80
Date: 2011-07-18 10:50:33 UTC
From: Philip
Topic: 2187 Message: 2187

Early days yet but decided to experiment with boosting the mic signal into my MKARS80.
I was getting out OK but some reports said a more treble level to my mike audio would help make the QRP signal easier to copy in noisy conditions.
Also, I was having to "talk up" the mic with a raised voice which wasn't comfortable. Mic is a standard electret computer mic.

Anyhoo, came across this little circuit and built one into a seperate small aluminium box with a PP3 for it's power supply.
Picture in my photo album (G4JVF) of it sat on top of the MKARS80 pyramid :)

Link to the circuit in question....
http://www.rason.org/Projects/speech/speech.htm

Plugs directly into the MKARS mic socket at the moment but at some point I will isolate the MKARS mic amp and try this in it's place as an experiment.
Trialed it last night and a patient ham listened and reported as I set it to various gain settings.
Not switched in the processer part yet, this was just using the circuit as a standard mic pre amp.
About half way up on the gain setting got me a report of punchy good listening quality audio, speaking at normal levels about 2 feet from the mic.

A few QSOs later in the evening all gave me a good signal and redability report without me mentioning the audio mods so I'm very pleased with the results so far.
Every station I called came back to me that night.
Even got a PA2, my first MKARS80 QSO out of the country on my low 80 meter dipole....

I also have my mic modded as per the file on here with a 22K/0.1uF, in series with the mic to lower the bass.

More later as I dabble some more

Regards
Philip G4JVF

2188. TX Power

Yahoo group: mkars80
Date: 2011-07-18 17:56:11 UTC
From: jackthewhistler
Topic: 2188 Message: 2188

My MKARS is working so far :)

I can hear many stations but when i transmit i hardly get heared.
Current draw while talking is only 0.5A (at 12.6V) which is a bit suspicious to me, as the manual says 1.2A. ? I adjusted bias form 0.25 to 0.29A .
Any idea what that could be ?
Thank you in advance.

2189. Re: [mkars80] TX Power

Yahoo group: mkars80
Date: 2011-07-18 19:23:53 UTC
From: Steve Drury
Topic: 2188 Message: 2189

Hi, Jack I guess?

First do a voltage check which should show up any wrong components, if
all OK then check to make sure all the solder joints on the transformers
are good - there has been much discussion on the group about the best
way to "tin" the wires - poor solder joints to the enamelled copper wire
is by far the most common problem.

Regards,
Steve G6ALU

On 18/07/2011 18:56, jackthewhistler wrote:
> My MKARS is working so far :)
>
> I can hear many stations but when i transmit i hardly get heared.
> Current draw while talking is only 0.5A (at 12.6V) which is a bit suspicious to me, as
the manual says 1.2A. ? I adjusted bias form 0.25 to 0.29A .
> Any idea what that could be ?
> Thank you in advance.
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1390 / Virus Database: 1516/3770 - Release Date: 07/17/11
>
>

2190. Re: Messing with the mic amp & 80 output amp project

Yahoo group: mkars80
Date: 2011-07-19 04:31:16 UTC
From: vk4apn
Topic: 2187 Message: 2190

> Also, I was having to "talk up" the mic with a raised voice which wasn't comfortable. Mic is a standard electret computer mic.

Wow my el-cheapo electret insert has bags of audio, so much so I added a heavy duty mic sock / wind sock to help reduce the level. it might be worth trying a few different inserts. Having said that I like to play with audio bandwidth, peaking (Heil inserts) and my old faithful 1980 Practical Wireless processor (its still my favourite).

> About half way up on the gain setting got me a report of punchy good listening quality audio, speaking at normal levels about 2 feet from the mic.

I like to speak no more than a 50mm distance from the microphone so may that is the difference? My radio area is too "bright & echoes a bit" for a high gain mic.

I have uploaded a couple of pics under vk4apn a simple amp design by PA0RCL to help even up the RX/TX levels. As it is the basic radio is really very good.

Paul vk4apn

2191. Re: [mkars80] Re: Messing with the mic amp & 80 output amp project

Yahoo group: mkars80
Date: 2011-07-19 07:06:34 UTC
From: g6alu@tiscali.co.uk
Topic: 2187 Message: 2191

Hi all...

I was going to say there is something wrong with the radio until I realised you were speaking so far from the microphone - I speak in a normal voice about 6 inches from the mike and find thats about right.

Remember the red modulation LED should just flicker off whilst speaking, if it is off most of the time the PA is doing the compression for you!

Steve G6ALU

>----Original Message----

>From: pauln@...

>Date: 19/07/2011 5:31

>To: <mkars80@...>

>Subj: [mkars80] Re: Messing with the mic amp & 80 output amp project

>

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>> Also, I was having to "talk up" the mic with a raised voice which wasn't comfortable. Mic is a standard electret computer mic.

>

>Wow my el-cheapo electret insert has bags of audio, so much so I added a heavy duty mic sock / wind sock to help reduce the level. it might be worth trying a few different inserts. Having said that I like to play with audio bandwidth, peaking (Heil inserts) and my old faithful 1980 Practical Wireless processor (its still my favourite).

>

>> About half way up on the gain setting got me a report of punchy good listening quality audio, speaking at normal levels about 2 feet from the mic.

>

>I like to speak no more than a 50mm distance from the microphone so may that is the difference? My radio area is too "bright & echoes a bit" for a high gain mic.

>

>I have uploaded a couple of pics under vk4apn a simple amp design by PA0RCL to help even up the RX/TX levels. As it is the basic radio is really very good.

>

>Paul vk4apn

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>Yahoo! Groups Links

>

> http://uk.groups.yahoo.com/group/mkars80/
>

required)

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uk

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> mkars80-unsubscribe@...

>

> http://uk.docs.yahoo.com/info/terms.html
>

>

2192. Re: Messing with the mic amp & 80 output amp project

Yahoo group: mkars80
Date: 2011-07-19 10:15:50 UTC
From: Philip
Topic: 2187 Message: 2192

Don't get me wrong, the radio as is, works very well (led dims as expected) but I wanted to be able to move away from the mic a bit and also wanted a bit more audio punch when needed under noisy band conditions.

Not tried another electret insert yet, a couple of different types on order..
Another session last night and all stations called, heard me even though band conditions were only just fair...

Decided to leave this addon as a seperate unit from the rig as it gives me more options to experiment with different mics eg dynamic fist mics...

Amazing litte rig and oodles of fun :)

--- In mkars80@..., "vk4apn" <pauln@...> wrote:
>
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>
> > Also, I was having to "talk up" the mic with a raised voice which wasn't comfortable. Mic is a standard electret computer mic.
>
> Wow my el-cheapo electret insert has bags of audio, so much so I added a heavy duty mic sock / wind sock to help reduce the level. it might be worth trying a few different inserts. Having said that I like to play with audio bandwidth, peaking (Heil inserts) and my old faithful 1980 Practical Wireless processor (its still my favourite).
>
> > About half way up on the gain setting got me a report of punchy good listening quality audio, speaking at normal levels about 2 feet from the mic.
>
> I like to speak no more than a 50mm distance from the microphone so may that is the difference? My radio area is too "bright & echoes a bit" for a high gain mic.
>
> I have uploaded a couple of pics under vk4apn a simple amp design by PA0RCL to help even up the RX/TX levels. As it is the basic radio is really very good.
>
> Paul vk4apn
>

2193. Frequency drift - how much is too much?

Yahoo group: mkars80
Date: 2011-07-21 03:45:47 UTC
From: vk4apn
Topic: 429 Message: 2193

Ok, I have now been using the radio for enough time to add to my initial comments from some time ago.
This may or not be relevant.....
Firstly the ambient temp here is always between 25 - 30 degrees C. I live in the tropics.

There is drift occurring even after radio has been on for hours, it will lose lock and jump several khz low - this is while listening only, although, at times it will sit for hours and not budge?. When transmitting the + sign starts to move to the right after say 30 secs and continues to do until lock is lost - so I keep overs very short! After releasing the PTT the bars continue to creep right, sometimes reverting other times losing lock.

The radio is boxed up and the PA device is well heat sunk and really does not get that hot. The correct 1n caps are in c59/60 positions.

I remember going nuts in the past trying to tame conventional VFOs so I thought I would ask the group before I start going around in circles!

If I cant stabilise to a reasonable extent I will revert to using a DDS circuit, so I am certainly not going to lose sleep over it, but would like to improve if possible.

Paul vk4apn

From 11/07/2011
The reason I ask is that I note on my unit (MKARS80 only)that it will sit all day with the + sign only and does not budge on freq at all. During transmit, however, I notice after a very short period the bars start to appear and eventually the lock is lost - so I am assuming that there is a heat effect going on - but nothing obvious to me so far. The heat generating components are physically well removed from the VFO circuitry. Unit is boxed up and not open the the atmosphere. So I keep overs very short until I get on top of it!!
>
> The ambient temperature in the tropics is usually 25 C at this time of year (dry season) and will be 30 C during the wet.
>
> All part of the fun
>
> Paul vk4apn
>

2194. Re: Frequency drift - how much is too much?

Yahoo group: mkars80
Date: 2011-07-21 07:50:55 UTC
From: g3sew
Topic: 429 Message: 2194

My MKARS is rock steady. I switch it on in the morning, and it will fire up at a particular frequency and lock. 5 hours later if I leave it alone it is still on exactly the same frequency (I have to say that I find this quite disturbing!).

If I use it to transmit, it still doesn't shift. The only times I had frequency shift when transmitting was when the power supply did not have enough capacity.

The rig never made its way to a box, and I have an aluminium heat sink on the IRF510 which gets very hot. The shack temperature is usually a pretty steady 22-23C.

Lee G3SEW

--- In mkars80@yahoogroups.co.uk, "vk4apn" <pauln@...> wrote:
>
>
>
> Ok, I have now been using the radio for enough time to add to my initial comments from some time ago.
> This may or not be relevant.....
> Firstly the ambient temp here is always between 25 - 30 degrees C. I live in the tropics.
>
> There is drift occurring even after radio has been on for hours, it will lose lock and jump several khz low - this is while listening only, although, at times it will sit for hours and not budge?. When transmitting the + sign starts to move to the right after say 30 secs and continues to do until lock is lost - so I keep overs very short! After releasing the PTT the bars continue to creep right, sometimes reverting other times losing lock.
>
> The radio is boxed up and the PA device is well heat sunk and really does not get that hot. The correct 1n caps are in c59/60 positions.
>
> I remember going nuts in the past trying to tame conventional VFOs so I thought I would ask the group before I start going around in circles!
>
> If I cant stabilise to a reasonable extent I will revert to using a DDS circuit, so I am certainly not going to lose sleep over it, but would like to improve if possible.
>
> Paul vk4apn
>
> From 11/07/2011
> The reason I ask is that I note on my unit (MKARS80 only)that it will sit all day with the + sign only and does not budge on freq at all. During transmit, however, I notice after a very short period the bars start to appear and eventually the lock is lost - so I am assuming that there is a heat effect going on - but nothing obvious to me so far. The heat generating components are physically well removed from the VFO circuitry. Unit is boxed up and not open the the atmosphere. So I keep overs very short until I get on top of it!!
> >

> > The ambient temperature in the tropics is usually 25 C at this time of year (dry season) and will be 30 C during the wet.
> >
> > All part of the fun
> >
> > Paul vk4apn
> >
>

2195. Re: Frequency drift - how much is too much?

Yahoo group: mkars80
Date: 2011-07-21 08:51:52 UTC
From: vk4apn
Topic: 429 Message: 2195

--- In mkars80@..., "g3sew" <g3sew@...> wrote:

Thanks for your response Lee.

> My MKARS is rock steady. I switch it on in the morning, and it will fire up at a particular frequency and lock. 5 hours later if I leave it alone it is still on exactly the same frequency (I have to say that I find this quite disturbing!).

Yes, mine behaves the same way at times and remains rock steady. The freq jump on Rx is random. On tx it is certain.
>
> If I use it to transmit, it still doesn't shift. The only times I had frequency shift when transmitting was when the power supply did not have enough capacity.

First thing I checked was to see if there was a voltage drop - negative. I have run it on 2 different 20amp supplies and SLA battery, so can count that out.

> The rig never made its way to a box, and I have an aluminium heat sink on the IRF510 which gets very hot. The shack temperature is usually a pretty steady 22-23C.

Yes, my projects usually stall when it comes to any sort of metal bashing...
thanks
Paul vk4apn

2196. Re: Frequency drift - how much is too much?

Yahoo group: mkars80
Date: 2011-07-21 10:34:44 UTC
From: Philip
Topic: 429 Message: 2196

Paul

My MKARS80 is very stable after an initial 5 minutes or so warm up.
I found a dramatic improvement in stability after I did the varicap/10 turn tuning pot mod...is yours using the original tuning capacitor?

Regards
Philip G4JVF

--- In mkars80@..., "vk4apn" <pauln@...> wrote:
>
>
>
> Ok, I have now been using the radio for enough time to add to my initial comments from some time ago.
> This may or not be relevant.....
> Firstly the ambient temp here is always between 25 - 30 degrees C. I live in the tropics.
>
> There is drift occurring even after radio has been on for hours, it will lose lock and jump several khz low - this is while listening only, although, at times it will sit for hours and not budge?. When transmitting the + sign starts to move to the right after say 30 secs and continues to do until lock is lost - so I keep overs very short! After releasing the PTT the bars continue to creep right, sometimes reverting other times losing lock.
>
> The radio is boxed up and the PA device is well heat sunk and really does not get that hot. The correct 1n caps are in c59/60 positions.
>
> I remember going nuts in the past trying to tame conventional VFOs so I thought I would ask the group before I start going around in circles!
>
> If I cant stabilise to a reasonable extent I will revert to using a DDS circuit, so I am certainly not going to lose sleep over it, but would like to improve if possible.
>
> Paul vk4apn
>
> From 11/07/2011
> The reason I ask is that I note on my unit (MKARS80 only)that it will sit all day with the + sign only and does not budge on freq at all. During transmit, however, I notice after a very short period the bars start to appear and eventually the lock is lost - so I am assuming that there is a heat effect going on - but nothing obvious to me so far. The heat generating components are physically well removed from the VFO circuitry. Unit is boxed up and not open the the atmosphere. So I keep overs very short until I get on top of it!!
> >
> > The ambient temperature in the tropics is usually 25 C at this time of year (dry season) and will be 30 C during the wet.
> >

> > All part of the fun
> >
> > Paul vk4apn
> >
>

2197. Re: Frequency drift - how much is too much?

Yahoo group: mkars80
Date: 2011-07-21 11:24:03 UTC
From: vk4apn
Topic: 429 Message: 2197

> Paul
>
> My MKARS80 is very stable after an initial 5 minutes or so warm up.
> I found a dramatic improvement in stability after I did the varicap/10 turn tuning pot mod...is yours using the original tuning capacitor?
>
> Regards
> Philip G4JVF

I am using the original polycon, but with a reduction drive as per another recent post. I took great care to ensure there was no mechanical stress on the polycon. i.e. I secured the pcb to the case first, then fastened the reduction drive to the polycon, finally fastened the 2 M2 bolts holding the drive to the front panel. I am pretty sure it is not mechanical?

Anyway, which version of the varicap mod did you do?

Thanks for responding.

Paul vk4apn

2198. Re: Frequency drift - how much is too much?

Yahoo group: mkars80
Date: 2011-07-21 12:34:50 UTC
From: Philip
Topic: 429 Message: 2198

This one Paul

http://pa0rcl.com/PA0RCL/MKARS80_files/Tuning_MKARS80_1.1.GIF

I used an MVAM109 varicap diode.
This mod really turns a great little rig into an even greater one ..
Very stable tuning with virtualy no need for touching the fine tune knob.
Frequency change goes the right way and it's easy using the pre set multi turn to set your desired bandwidth exactley how you want it.

Well worth doing...

Regards
Philip G4JVF

--- In mkars80@..., "vk4apn" <pauln@...> wrote:
>
>
>
>
> > Paul
> >
> > My MKARS80 is very stable after an initial 5 minutes or so warm up.
> > I found a dramatic improvement in stability after I did the varicap/10 turn tuning pot mod...is yours using the original tuning capacitor?
> >
> > Regards
> > Philip G4JVF
>
> I am using the original polycon, but with a reduction drive as per another recent post. I took great care to ensure there was no mechanical stress on the polycon. i.e. I secured the pcb to the case first, then fastened the reduction drive to the polycon, finally fastened the 2 M2 bolts holding the drive to the front panel. I am pretty sure it is not mechanical?
>
> Anyway, which version of the varicap mod did you do?
>
> Thanks for responding.
>
> Paul vk4apn
>

2199. Re: Frequency drift - how much is too much?

Yahoo group: mkars80
Date: 2011-07-22 00:18:19 UTC
From: Jonathan point
Topic: 429 Message: 2199

I had frequency drift issues when I put a small amplifier in mine. After a few short overs, it was impossible to control!!??!. It would drift in one direction whilst transmitting, then just as you retuned for lock, it would swing the other way.

After removing the amp (it flattened the battery anyway...), I noticed that the drift was still there, but not bad enough to lose lock. In summer down here (Sydney), if I pull the rig of the cool house and take it outside I have to leave it for a few minutes to stabilise, or it continually unlocks. Once 'soaked' though, it's pretty good.

Personally, I don't think that the standard case is good enough as a heatsink in 30+ temps. It just gets too hot - part of my reason for choosing a larger case and a nice slab of 3mm AL for the heatsink. You could try putting a slab on the outside of the case to slow the rate of temp rise - this might slow the drift down enough to remain in lock.

In all honesty, having played with VFOs and stabilisers a lot, I am intrigued by how well the MK' works in this regard. I never had as much luck with my own endeavours!

Regards,
Jon
VK2JDP

--- In mkars80@..., "vk4apn" <pauln@...> wrote:
>
>
>
>
> > Paul
> >
> > My MKARS80 is very stable after an initial 5 minutes or so warm up.
> > I found a dramatic improvement in stability after I did the varicap/10 turn tuning pot mod...is yours using the original tuning capacitor?
> >
> > Regards
> > Philip G4JVF
>
> I am using the original polycon, but with a reduction drive as per another recent post. I took great care to ensure there was no mechanical stress on the polycon. i.e. I secured the pcb to the case first, then fastened the reduction drive to the polycon, finally fastened the 2 M2 bolts holding the drive to the front panel. I am pretty sure it is not mechanical?
>
> Anyway, which version of the varicap mod did you do?
>
> Thanks for responding.
>
> Paul vk4apn
>

2200. Re: Frequency drift - how much is too much?

Yahoo group: mkars80
Date: 2011-07-22 23:29:46 UTC
From: vk4apn
Topic: 429 Message: 2200

Thanks for the reply Jon.

--- In mkars80@..., "Jonathan point" <jonpoint@...> wrote:
> Personally, I don't think that the standard case is good enough as a heatsink in 30+ temps. It just gets too hot - part of my reason for choosing a larger case and a nice slab of 3mm AL for the heatsink. You could try putting a slab on the outside of the case to slow the rate of temp rise - this might slow the drift down enough to remain in lock.

I made my own case that just fits - all a bit tight anyway, so will relocate to a larger enclosure with more substantial heat-sinking - although my unit doesn't get all that hot on TX. Metal work and I just do not get on - my enclosure looks like my dog made it.

I just built a version of the 40w PA0RCL amp in its own solid diecast enclosure.
>
> In all honesty, having played with VFOs and stabilisers a lot, I am intrigued by how well the MK' works in this regard. I never had as much luck with my own endeavours!

I agree re the huff and puff - its pretty smart.

Paul vk4apn

2201. /P radio bag from Aldi stores.

Yahoo group: mkars80
Date: 2011-08-11 15:24:10 UTC
From: John
Topic: 2201 Message: 2201

Hello Folks,

Aldi stores are selling fishing bags at £9.99 that are perfect for the MKARS80 and indeed most /p operation. I have easily fitted the MKARS80, CW adaptor, HB ATU, 17Ah battery, W3EDP wire antenna, all leads and more.

The bag is very strong (no problem for the 17Ah battery) made from nylon canvas effect material with carry handles and shoulder strap see http://www.aldi.co.uk/uk/html/offers/offers_week32Sunday11.htm I will also post a picture in the photo section with all the MKARS80 bits in it. My local store (Aylesbury) had quite a few of them as of today (11 Aug 11).

73 de John (M0TIF) ...- .-

2202. Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-18 18:46:48 UTC
From: kc9lif
Topic: 2202 Message: 2202

I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.

73, Kent KC9LIF

2203. Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-18 20:21:35 UTC
From: g4gcl
Topic: 2202 Message: 2203

Hi Kent.

My comments for what they are worth.

I was also worried about the square hole but what I did was to print out the top panel provided in the instructions after adding or subtracting any wording or pictures. Bear in mind when you do that to make sure that it is set to print at original size, not a default setting when printing a PDF. Then cut out the square on the printed sheet with a sharp knife or scalpel and laminate it. That means that you get a nice square edge covering the one in the case and the laminating after the cutout means there is a window over the display. It looks very nice.

I cut the case with a Dremel using a disk after drilling the corners, it is really no problem.

The only other major thing to look out for is to make sure the windings really are tinned, check with a meter. It takes a hot iron!

A slow motion drive was the only other thing I added, it makes a difference.

Someone in the group, usually Steve will always answer your questions.

All the best,

John.

--- In mkars80@..., "kc9lif" <kbergphd@...> wrote:
>
> I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.
>
> 73, Kent KC9LIF
>

2204. RE: [mkars80] Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-18 20:40:09 UTC
From: Peter Fraser
Topic: 2202 Message: 2204

Hi Kent

Although I messed up my hole positioning on the side of the case, I got the front OK.

I drilled 4 holes along each long edge then cut along with a metal saw. A few more holes along the short sides and the bulk of the metal was gone. I tidied the opening up with a flat file

You can see my efforts with the case on my blog
http://vk3zpf.blogspot.com/2009/12/mkars80-update-5.html

73
Peter VK3ZPF
http://vk3zpf.blogspot.com/

-----Original Message-----
From: mkars80@... [mailto:mkars80@yahoogroups.co.uk]On Behalf Of kc9lif
Sent: Friday, 19 August 2011 4:47 AM
To: mkars80@...
Subject: [mkars80] Starting construction...finally...

I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.

73, Kent KC9LIF

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1392 / Virus Database: 1520/3842 - Release Date: 08/18/11

[Non-text portions of this message have been removed]

2205. Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-18 20:51:16 UTC
From: Philip
Topic: 2202 Message: 2205

I drilled a series of holes inside the rectangle line and pushed out
the waste.
Finished with a flat file to the line.

Good luck with your build... a great bit of kit, I'm really
enjoying using mine..

Regards
Philip G4JVF

--- In mkars80@..., "kc9lif" <kbergphd@...> wrote:
>
> I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.
>
> 73, Kent KC9LIF
>

2206. RE: [mkars80] Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-19 03:43:10 UTC
From: Kent Berglund PhD
Topic: 2202 Message: 2206

Thanks, John. Great suggestions in preparing and then following thru. I have another box I can practice on, and some other kits I want to use digital readouts. I also appreciate your warning me about the tinning the magnetic wire.
73, Kent KC9LIF

To: mkars80@...
From: john@freeatthesea.com
Date: Thu, 18 Aug 2011 20:21:35 +0000
Subject: [mkars80] Re: Starting construction...finally...

Hi Kent.

My comments for what they are worth.

I was also worried about the square hole but what I did was to print out

the top panel provided in the instructions after adding or subtracting

any wording or pictures. Bear in mind when you do that to make sure

that it is set to print at original size, not a default setting when

printing a PDF. Then cut out the square on the printed sheet with a

sharp knife or scalpel and laminate it. That means that you get a nice

square edge covering the one in the case and the laminating after the

cutout means there is a window over the display. It looks very nice.

I cut the case with a Dremel using a disk after drilling the corners, it

is really no problem.

The only other major thing to look out for is to make sure the windings

really are tinned, check with a meter. It takes a hot iron!

A slow motion drive was the only other thing I added, it makes a

difference.

Someone in the group, usually Steve will always answer your questions.

All the best,

John.

--- In mkars80@..., "kc9lif" <kbergphd@...> wrote:

>

> I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.

>

> 73, Kent KC9LIF

>

[Non-text portions of this message have been removed]

2207. RE: [mkars80] Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-19 03:45:42 UTC
From: Kent Berglund PhD
Topic: 2202 Message: 2207

Thanks, Philip. Another great suggestion. I am going to get myself a flat files to have on hand for smoothing rough surfaces.
73, Kent KC9LIF

To: mkars80@...
From: pcteee@...
Date: Thu, 18 Aug 2011 20:51:16 +0000
Subject: [mkars80] Re: Starting construction...finally...

I drilled a series of holes inside the rectangle line and pushed out

the waste.

Finished with a flat file to the line.

Good luck with your build... a great bit of kit, I'm really

enjoying using mine..

Regards

Philip G4JVF

--- In mkars80@..., "kc9lif" <kbergphd@...> wrote:

>

> I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.

>

> 73, Kent KC9LIF

>

[Non-text portions of this message have been removed]

2208. RE: [mkars80] Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-19 03:47:24 UTC
From: Kent Berglund PhD
Topic: 2202 Message: 2208

Thanks, Peter. Will study your efforts on your blog. That will be a big help. FB on your kit!! 73, Kent KC9LIF

To: mkars80@...
From: pfraser@...
Date: Fri, 19 Aug 2011 06:40:09 +1000
Subject: RE: [mkars80] Starting construction...finally...

Hi Kent

Although I messed up my hole positioning on the side of the case, I got the

front OK.

I drilled 4 holes along each long edge then cut along with a metal saw. A

few more holes along the short sides and the bulk of the metal was gone. I

tidied the opening up with a flat file

You can see my efforts with the case on my blog

http://vk3zpf.blogspot.com/2009/12/mkars80-update-5.html

73

Peter VK3ZPF

http://vk3zpf.blogspot.com/

-----Original Message-----

From: mkars80@yahoogroups.co.uk [mailto:mkars80@...]On Behalf

Of kc9lif

Sent: Friday, 19 August 2011 4:47 AM

To: mkars80@...

Subject: [mkars80] Starting construction...finally...

I got this kit about 3 or so years ago, and with work, retirement,

illness, etc., I am finally getting a start on this. One question. I have

been looking through the messages for something on cutting the rectangular

hole for the freq meter. Anybody got a easy way to do this when you don't

have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.

73, Kent KC9LIF

No virus found in this message.

Checked by AVG - www.avg.com

Version: 10.0.1392 / Virus Database: 1520/3842 - Release Date: 08/18/11

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2209. RE: [mkars80] Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-19 15:33:39 UTC
From: Owen Williams
Topic: 2202 Message: 2209

Like wise drill a series of holes and file carefully. Support the hole with two pieces of wood. Make sure that you don't make the holes back to front (easily done), use the screw holes as datum points. You can use a DVD/CD marker pen to mark things out.

Owen MW0GMH

From: mkars80@... [mailto:mkars80@...] On Behalf Of Philip
Sent: 18 August 2011 21:51
To: mkars80@...
Subject: [mkars80] Re: Starting construction...finally...

I drilled a series of holes inside the rectangle line and pushed out the waste.
Finished with a flat file to the line.

Good luck with your build... a great bit of kit, I'm really enjoying using mine..

Regards
Philip G4JVF

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> , "kc9lif" <kbergphd@...> wrote:
>
> I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.
>
> 73, Kent KC9LIF
>

[Non-text portions of this message have been removed]

2210. Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-19 16:10:00 UTC
From: Luis
Topic: 2202 Message: 2210

Hi to all:

Sorry for my bad English, I have very rusty

I follow with interest the subject ... many years ago I do not use the system of continuous holes ... Gentlemen must be modernized ;-)))))))

I use a tool called "nibbling tool" in English
can see it here:
http://www.proskit.com.tw/en/product/product_detail.asp?itemid=SR-015
<http://www.proskit.com.tw/en/product/product_detail.asp?itemid=SR-015>

Images are illustrative ... ask if they have any doubt, will be happy to tell
Its price about 10 Euros in Spain

72 EB4EPY LuisM

--- In mkars80@..., "kc9lif" <kbergphd@...> wrote:
>
> I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.
>
> 73, Kent KC9LIF
>

[Non-text portions of this message have been removed]

2211. RE: [mkars80] Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-20 02:19:06 UTC
From: Kent Berglund PhD
Topic: 2202 Message: 2211

Thanks Owen for the great idea about clamping with wood pieces. I was working on a very small enclosure and it wasn't in a stable setup and it moved around on me. I use to work in a fully equipped shop with all kind of tools. Now that I am retired, I have kind of a meager arrangement that I need to be smart about equipping (for not much money).
73, Kent KC9LIF

To: mkars80@...
From: owenwilliamsft950@...
Date: Fri, 19 Aug 2011 16:33:39 +0100
Subject: RE: [mkars80] Re: Starting construction...finally...

Like wise drill a series of holes and file carefully. Support the hole with

two pieces of wood. Make sure that you don't make the holes back to front

(easily done), use the screw holes as datum points. You can use a DVD/CD

marker pen to mark things out.

Owen MW0GMH

From: mkars80@... [mailto:mkars80@...] On Behalf

Of Philip

Sent: 18 August 2011 21:51

To: mkars80@...

Subject: [mkars80] Re: Starting construction...finally...

I drilled a series of holes inside the rectangle line and pushed out

the waste.

Finished with a flat file to the line.

Good luck with your build... a great bit of kit, I'm really

enjoying using mine..

Regards

Philip G4JVF

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,

"kc9lif" <kbergphd@...> wrote:

>

> I got this kit about 3 or so years ago, and with work, retirement, illness, etc., I am finally getting a start on this. One question. I have been looking through the messages for something on cutting the rectangular hole for the freq meter. Anybody got a easy way to do this when you don't have a shop or many tools around? I do have a dremel tool, but don't think I have the right bit to do any cutting. I have seen some pretty good looking cases and wondering how they came up with them. I have seen the messages about the template sizing. Thanks in advance.

>

> 73, Kent KC9LIF

>

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[Non-text portions of this message have been removed]

2212. RE: [mkars80] Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-20 02:21:04 UTC
From: Kent Berglund PhD
Topic: 2202 Message: 2212

Thanks for reminding me about this little tool, Luis. I will check into that for a solution. Nothing wrong with your English.
73, Kent KC9LIF

To: mkars80@...
From: vagubix@...
Date: Fri, 19 Aug 2011 16:10:00 +0000
Subject: [mkars80] Re: Starting construction...finally...

Hi to all:

Sorry for my bad English, I have very rusty

I follow with interest the subject ... many years ago I do not use the

system of continuous holes ... Gentlemen must be modernized ;-)))))))

I use a tool called "nibbling tool" in English

can see it here:

http://www.proskit.com.tw/en/product/product_detail.asp?itemid=SR-015

<http://www.proskit.com.tw/en/product/product_detail.asp?itemid=SR-015>

Images are illustrative ... ask if they have any doubt, will be happy to

tell

Its price about 10 Euros in Spain

72 EB4EPY LuisM

--- In mkars80@..., "kc9lif" <kbergphd@...> wrote:

>

> I got this kit about 3 or so years ago, and with work, retirement,

illness, etc., I am finally getting a start on this. One question. I

have been looking through the messages for something on cutting the

rectangular hole for the freq meter. Anybody got a easy way to do this

when you don't have a shop or many tools around? I do have a dremel

tool, but don't think I have the right bit to do any cutting. I have

seen some pretty good looking cases and wondering how they came up with

them. I have seen the messages about the template sizing. Thanks in

advance.

>

> 73, Kent KC9LIF

>

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[Non-text portions of this message have been removed]

2213. RE: [mkars80] Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-20 10:04:23 UTC
From: Owen Williams
Topic: 2202 Message: 2213

One tool that I have found extremely useful for this type of project is a tapered hand reamer which you can get from eBay for about $8.00,- brilliant for carefully enlarging holes. Also keep an eye on the Aldi store. Over here in UK they sell tools at a very reasonable price.

Owen MW0GMH

-----Original Message-----
From: mkars80@... [mailto:mkars80@...] On Behalf
Of Kent Berglund PhD
Sent: 20 August 2011 03:19
To: mkars80@...
Subject: RE: [mkars80] Re: Starting construction...finally...

Thanks Owen for the great idea about clamping with wood pieces. I was working on a very small enclosure and it wasn't in a stable setup and it moved around on me. I use to work in a fully equipped shop with all kind of tools. Now that I am retired, I have kind of a meager arrangement that I need to be smart about equipping (for not much money).
73, Kent KC9LIF

To: mkars80@...
From: owenwilliamsft950@...
Date: Fri, 19 Aug 2011 16:33:39 +0100
Subject: RE: [mkars80] Re: Starting construction...finally...

Like wise drill a series of holes and file carefully. Support the hole with

two pieces of wood. Make sure that you don't make the holes back to front

(easily done), use the screw holes as datum points. You can use a DVD/CD

marker pen to mark things out.

Owen MW0GMH

From: mkars80@... [mailto:mkars80@...] On Behalf

Of Philip

Sent: 18 August 2011 21:51

To: mkars80@...

Subject: [mkars80] Re: Starting construction...finally...

I drilled a series of holes inside the rectangle line and pushed out

the waste.

Finished with a flat file to the line.

Good luck with your build... a great bit of kit, I'm really

enjoying using mine..

Regards

Philip G4JVF

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,

"kc9lif" <kbergphd@...> wrote:

>

> I got this kit about 3 or so years ago, and with work, retirement,

illness, etc., I am finally getting a start on this. One question. I have

been looking through the messages for something on cutting the rectangular

hole for the freq meter. Anybody got a easy way to do this when you don't

have a shop or many tools around? I do have a dremel tool, but don't think I

have the right bit to do any cutting. I have seen some pretty good looking

cases and wondering how they came up with them. I have seen the messages

about the template sizing. Thanks in advance.

>

> 73, Kent KC9LIF

>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

2214. RE: [mkars80] Re: Starting construction...finally...

Yahoo group: mkars80
Date: 2011-08-20 15:48:18 UTC
From: Kent Berglund PhD
Topic: 2202 Message: 2214

Thanks again, Owen. I used one of those a lot when I was younger, but had forgot about it. It works great for deburring holes as well. I was able to find one that was a good price and have ordered it. Thanks to your help and others, I will have a pretty well outfitted little work shop when I finish this project.
Kent KC9LIF

To: mkars80@...
From: owenwilliamsft950@...
Date: Sat, 20 Aug 2011 11:04:23 +0100
Subject: RE: [mkars80] Re: Starting construction...finally...

One tool that I have found extremely useful for this type of project is a

tapered hand reamer which you can get from eBay for about $8.00,- brilliant

for carefully enlarging holes. Also keep an eye on the Aldi store. Over here

in UK they sell tools at a very reasonable price.

Owen MW0GMH

-----Original Message-----

From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf

Of Kent Berglund PhD

Sent: 20 August 2011 03:19

To: mkars80@...

Subject: RE: [mkars80] Re: Starting construction...finally...

Thanks Owen for the great idea about clamping with wood pieces. I was

working on a very small enclosure and it wasn't in a stable setup and it

moved around on me. I use to work in a fully equipped shop with all kind of

tools. Now that I am retired, I have kind of a meager arrangement that I

need to be smart about equipping (for not much money).

73, Kent KC9LIF

To: mkars80@yahoogroups.co.uk

From: owenwilliamsft950@...

Date: Fri, 19 Aug 2011 16:33:39 +0100

Subject: RE: [mkars80] Re: Starting construction...finally...

Like wise drill a series of holes and file carefully. Support the hole

with

two pieces of wood. Make sure that you don't make the holes back to front

(easily done), use the screw holes as datum points. You can use a DVD/CD

marker pen to mark things out.

Owen MW0GMH

From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf

Of Philip

Sent: 18 August 2011 21:51

To: mkars80@...

Subject: [mkars80] Re: Starting construction...finally...

I drilled a series of holes inside the rectangle line and pushed out

the waste.

Finished with a flat file to the line.

Good luck with your build... a great bit of kit, I'm really

enjoying using mine..

Regards

Philip G4JVF

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,

"kc9lif" <kbergphd@...> wrote:

>

> I got this kit about 3 or so years ago, and with work, retirement,

illness, etc., I am finally getting a start on this. One question. I have

been looking through the messages for something on cutting the rectangular

hole for the freq meter. Anybody got a easy way to do this when you don't

have a shop or many tools around? I do have a dremel tool, but don't think I

have the right bit to do any cutting. I have seen some pretty good looking

cases and wondering how they came up with them. I have seen the messages

about the template sizing. Thanks in advance.

>

> 73, Kent KC9LIF

>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2215. 80 meter linear by PA0RCL

Yahoo group: mkars80
Date: 2011-08-21 04:03:13 UTC
From: vk4apn
Topic: 2215 Message: 2215

have posted a photo of completed amplifier.

Works very very well and was well worth the effort to build. Can recommend to others who might like a little more power.

Many thanks to PA0RCL for his excellent info and PCB layout - fortunately, I use same PCB software so easily altered to suit parts on hand.

Apologies if I have double posted this - I thought I posted yesterday but may have pushed wrong button?

Paul vk4apn

2216. MKARS problem

Yahoo group: mkars80
Date: 2011-08-25 18:27:16 UTC
From: Harya
Topic: 2216 Message: 2216

Hi Steve,

I have problem with my MKARS 80
Supply display shows " Batt 6.0 Volt " and
Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt
Any Suggestion , to solve this ?

Regards,

Harya S

2217. Re: [mkars80] MKARS problem

Yahoo group: mkars80
Date: 2011-08-25 18:32:32 UTC
From: Steve Drury
Topic: 2216 Message: 2217

Hello Harya,

What do you mean by the "reff", is this the 5V supply?

Measure the 5V supply - is it 5V, if not is the regulator getting hot?
If yes you have a partial short somewhere on the 5V line, if its cold
either the regulator is faulty or fitted back to front.

Do you have 12V on the input to the regulator?

Regards,
Steve G6ALU

On 25/08/2011 19:27, Harya wrote:
> Hi Steve,
>
> I have problem with my MKARS 80
> Supply display shows " Batt 6.0 Volt " and
> Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt
> Any Suggestion , to solve this ?
>
> Regards,
>
>
> Harya S
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date: 08/25/11
>
>

2218. Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-25 18:38:59 UTC
From: Harya
Topic: 2216 Message: 2218

Reff is from voltage table
pin 17 of IC 2 should be 3.7 V not 1,7 V

The Regulator is 12 Volt

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Hello Harya,
>
> What do you mean by the "reff", is this the 5V supply?
>
> Measure the 5V supply - is it 5V, if not is the regulator getting hot?
> If yes you have a partial short somewhere on the 5V line, if its cold
> either the regulator is faulty or fitted back to front.
>
> Do you have 12V on the input to the regulator?
>
> Regards,
> Steve G6ALU
>
> On 25/08/2011 19:27, Harya wrote:
> > Hi Steve,
> >
> > I have problem with my MKARS 80
> > Supply display shows " Batt 6.0 Volt " and
> > Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt
> > Any Suggestion , to solve this ?
> >
> > Regards,
> >
> >
> > Harya S
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date: 08/25/11
> >
> >
>

2219. Re: [mkars80] Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-25 18:49:49 UTC
From: Steve Drury
Topic: 2216 Message: 2219

OK I understand now.

Check the value of R33 and R21, if these are OK check that there are no solder blobs or similar across the PCB track. If all OK remove the micro and check the voltage at pin 17 again.

Let me know how you get on.

Regards,
Steve G6ALU

On 25/08/2011 19:38, Harya wrote:
> Reff is from voltage table
> pin 17 of IC 2 should be 3.7 V not 1,7 V
>
> The Regulator is 12 Volt
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> Hello Harya,
>>
>> What do you mean by the "reff", is this the 5V supply?
>>
>> Measure the 5V supply - is it 5V, if not is the regulator getting hot?
>> If yes you have a partial short somewhere on the 5V line, if its cold
>> either the regulator is faulty or fitted back to front.
>>
>> Do you have 12V on the input to the regulator?
>>
>> Regards,
>> Steve G6ALU
>>
>> On 25/08/2011 19:27, Harya wrote:
>>> Hi Steve,
>>>
>>> I have problem with my MKARS 80
>>> Supply display shows " Batt 6.0 Volt " and
>>> Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt
>>> Any Suggestion , to solve this ?
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>>> Regards,
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>>> Harya S
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>
>

2220. Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-25 19:15:16 UTC
From: Harya
Topic: 2216 Message: 2220

maybe tomorrow , i ll check all the pcb track

ok, thank

--- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:
>
> OK I understand now.
>
> Check the value of R33 and R21, if these are OK check that there are no
> solder blobs or similar across the PCB track. If all OK remove the micro
> and check the voltage at pin 17 again.
>
> Let me know how you get on.
>
> Regards,
> Steve G6ALU
>
> On 25/08/2011 19:38, Harya wrote:
> > Reff is from voltage table
> > pin 17 of IC 2 should be 3.7 V not 1,7 V
> >
> > The Regulator is 12 Volt
> >
> > --- In mkars80@..., Steve Drury<steve@> wrote:
> >> Hello Harya,
> >>
> >> What do you mean by the "reff", is this the 5V supply?
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> >> Measure the 5V supply - is it 5V, if not is the regulator getting hot?
> >> If yes you have a partial short somewhere on the 5V line, if its cold
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> >>
> >> Do you have 12V on the input to the regulator?
> >>
> >> Regards,
> >> Steve G6ALU
> >>
> >> On 25/08/2011 19:27, Harya wrote:
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> >>> I have problem with my MKARS 80
> >>> Supply display shows " Batt 6.0 Volt " and
> >>> Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt
> >>> Any Suggestion , to solve this ?
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> >>> Regards,
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>

2221. Re: [mkars80] Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-26 05:00:56 UTC
From: Harya Sidharta
Topic: 2216 Message: 2221

Hi SteveI'v already check all value, connection and pcb track,maybe I must replace the IC
Thank's

--- On Fri, 26/8/11, Harya <haryasidharta@...> wrote:

From: Harya <haryasidharta@...>
Subject: [mkars80] Re: MKARS problem
To: mkars80@...
Date: Friday, 26 August, 2011, 2:15 AM

maybe tomorrow , i ll check all the pcb track

ok, thank

--- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:

>

> OK I understand now.

>

> Check the value of R33 and R21, if these are OK check that there are no

> solder blobs or similar across the PCB track. If all OK remove the micro

> and check the voltage at pin 17 again.

>

> Let me know how you get on.

>

> Regards,

> Steve G6ALU

>

> On 25/08/2011 19:38, Harya wrote:

> > Reff is from voltage table

> > pin 17 of IC 2 should be 3.7 V not 1,7 V

> >

> > The Regulator is 12 Volt

> >

> > --- In mkars80@....uk, Steve Drury<steve@> wrote:

> >> Hello Harya,

> >>

> >> What do you mean by the "reff", is this the 5V supply?

> >>

> >> Measure the 5V supply - is it 5V, if not is the regulator getting hot?

> >> If yes you have a partial short somewhere on the 5V line, if its cold

> >> either the regulator is faulty or fitted back to front.

> >>

> >> Do you have 12V on the input to the regulator?

> >>

> >> Regards,

> >> Steve G6ALU

> >>

> >> On 25/08/2011 19:27, Harya wrote:

> >>> Hi Steve,

> >>>

> >>> I have problem with my MKARS 80

> >>> Supply display shows " Batt 6.0 Volt " and

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> >>> Regards,

> >>>

> >>>

> >>> Harya S

> >>>

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> >>> Yahoo! Groups Links

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> >>> No virus found in this message.

> >>> Checked by AVG - www.avg.com

> >>> Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date: 08/25/11

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> > No virus found in this message.

> > Checked by AVG - www.avg.com

> > Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date: 08/25/11

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[Non-text portions of this message have been removed]

2222. Re: [mkars80] Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-26 06:59:06 UTC
From: steve@radio-kits.co.uk
Topic: 2216 Message: 2222

```
Harya,

Pull the IC out of the socket and then measure the voltage, if its correct
then the IC is at fault and I will send you another.

Regards,
Steve G6ALU

> Hi SteveI'v already check all value, connection and pcb track,maybe I must
> replace the IC
> Thank's
>
> --- On Fri, 26/8/11, Harya <haryasidharta@...> wrote:
>
> From: Harya <haryasidharta@...>
> Subject: [mkars80] Re: MKARS problem
> To: mkars80@...
> Date: Friday, 26 August, 2011, 2:15 AM
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> maybe tomorrow , i ll check all the pcb track
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> ok, thank
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> --- In mkars80@..., Steve Drury <steve@...> wrote:
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>> OK I understand now.
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>
>> Check the value of R33 and R21, if these are OK check that there are no
>
>> solder blobs or similar across the PCB track. If all OK remove the micro
>
>> and check the voltage at pin 17 again.
>
>>
>
>> Let me know how you get on.
>
>>
>
>> Regards,
>
>> Steve G6ALU
>
>>
>
>> On 25/08/2011 19:38, Harya wrote:
>
>> > Reff is from voltage table
>
>> > pin 17 of IC 2 should be 3.7 V not 1,7 V
>
>> >
>
>> > The Regulator is 12 Volt
>
>> >
>
>> > --- In mkars80@..., Steve Drury<steve@> wrote:
>
>> >> Hello Harya,
>
>> >>
>

>> >> What do you mean by the "reff", is this the 5V supply?
>
>> >>
>
>> >> Measure the 5V supply - is it 5V, if not is the regulator getting
>> hot?
>
>> >> If yes you have a partial short somewhere on the 5V line, if its cold
>
>> >> either the regulator is faulty or fitted back to front.
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>> >>
>
>> >> Do you have 12V on the input to the regulator?
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>> >>
>
>> >> Regards,
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>> >> Steve G6ALU
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>> >>
>
>> >> On 25/08/2011 19:27, Harya wrote:
>
>> >>> Hi Steve,
>
>> >>>
>
>> >>> I have problem with my MKARS 80
>
>> >>> Supply display shows " Batt 6.0 Volt " and
>
>> >>> Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt
>
>> >>> Any Suggestion , to solve this ?
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>> >>> Regards,
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>> >>> Harya S
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2223. Just finished a Digital SWR meter build from Radio-Kits

Yahoo group: mkars80
Date: 2011-08-26 15:19:01 UTC
From: Philip
Topic: 2223 Message: 2223

Another great kit fro Radio-Kits, easy to build
and a bargain considering the number of components
and quality PCB.

Built it to complement my MKARS80 with CW addon and
it works exactly as it says on the tin.
The power meter is going to be a godsend whilst tweaking
my many QRP TX projects.....

Great fun :)

Regards
Philip G4JVF

2224. Re: [mkars80] Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-26 18:22:28 UTC
From: Harya Sidharta
Topic: 2216 Message: 2224

Steve,I 'v already pull out the IC and the voltage is correct : 3,7 V at pin 17Please send me the IC, because I try to buy on line but not available to buy only 1
Regards

--- On Fri, 26/8/11, steve@... <steve@...> wrote:

From: steve@radio-kits.co.uk <steve@...>
Subject: Re: [mkars80] Re: MKARS problem
To: mkars80@...
Date: Friday, 26 August, 2011, 1:59 PM

Harya,

Pull the IC out of the socket and then measure the voltage, if its correct

then the IC is at fault and I will send you another.

Regards,

Steve G6ALU

> Hi SteveI'v already check all value, connection and pcb track,maybe I must

> replace the IC

> Thank's

>

> --- On Fri, 26/8/11, Harya <haryasidharta@yahoo.com> wrote:

>

> From: Harya <haryasidharta@...>

> Subject: [mkars80] Re: MKARS problem

> To: mkars80@...

> Date: Friday, 26 August, 2011, 2:15 AM

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> maybe tomorrow , i ll check all the pcb track

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> ok, thank

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> --- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:

>

>>

>

>> OK I understand now.

>

>>

>

>> Check the value of R33 and R21, if these are OK check that there are no

>

>> solder blobs or similar across the PCB track. If all OK remove the micro

>

>> and check the voltage at pin 17 again.

>

>>

>

>> Let me know how you get on.

>

>>

>

>> Regards,

>

>> Steve G6ALU

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>> On 25/08/2011 19:38, Harya wrote:

>

>> > Reff is from voltage table

>

>> > pin 17 of IC 2 should be 3.7 V not 1,7 V

>

>> >

>

>> > The Regulator is 12 Volt

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>> >

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>> > --- In mkars80@..., Steve Drury<steve@> wrote:

>

>> >> Hello Harya,

>

>> >>

>

>> >> What do you mean by the "reff", is this the 5V supply?

>

>> >>

>

>> >> Measure the 5V supply - is it 5V, if not is the regulator getting

>> hot?

>

>> >> If yes you have a partial short somewhere on the 5V line, if its cold

>

>> >> either the regulator is faulty or fitted back to front.

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>> >>

>

>> >> Do you have 12V on the input to the regulator?

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>> >>

>

>> >> Regards,

>

>> >> Steve G6ALU

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>> >>

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>> >> On 25/08/2011 19:27, Harya wrote:

>

>> >>> Hi Steve,

>

>> >>>

>

>> >>> I have problem with my MKARS 80

>

>> >>> Supply display shows " Batt 6.0 Volt " and

>

>> >>> Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt

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>> >>> Any Suggestion , to solve this ?

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>> >>> Regards,

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>> >>> Harya S

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>> >>> No virus found in this message.

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>> >>> Checked by AVG - www.avg.com

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>> >>> Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date:

>> 08/25/11

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>> > Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date:

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2225. Re: [mkars80] Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-26 18:36:37 UTC
From: Steve Drury
Topic: 2216 Message: 2225

It needs to be programmed also!

Please send me your address in a private email to me at
steve@... .

Steve G6ALU

On 26/08/2011 19:22, Harya Sidharta wrote:
> Steve,I 'v already pull out the IC and the voltage is correct : 3,7 V at pin 17Please send me the IC, because I try to buy on line but not available to buy only 1
> Regards
>
>
> --- On Fri, 26/8/11, steve@...<steve@...> wrote:
>
> From: steve@...<steve@...>
> Subject: Re: [mkars80] Re: MKARS problem
> To: mkars80@...
> Date: Friday, 26 August, 2011, 1:59 PM
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> Harya,

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> Pull the IC out of the socket and then measure the voltage, if its correct
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>
> then the IC is at fault and I will send you another.
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>
> Regards,
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> Steve G6ALU
>
>
>
>> Hi SteveI'v already check all value, connection and pcb track,maybe I must
>> replace the IC
>> Thank's
>> --- On Fri, 26/8/11, Harya<haryasidharta@...> wrote:
>> From: Harya<haryasidharta@...>
>> Subject: [mkars80] Re: MKARS problem
>> To: mkars80@...
>> Date: Friday, 26 August, 2011, 2:15 AM
>> Â
>> maybe tomorrow , i ll check all the pcb track
>> ok, thank
>> --- In mkars80@..., Steve Drury<steve@...> wrote:
>>> OK I understand now.
>>> Check the value of R33 and R21, if these are OK check that there are no
>
>>> solder blobs or similar across the PCB track. If all OK remove the micro
>>> and check the voltage at pin 17 again.
>>> Let me know how you get on.
>>> Regards,
>>> Steve G6ALU
>>> On 25/08/2011 19:38, Harya wrote:
>>>> Reff is from voltage table
>>>> pin 17 of IC 2 should be 3.7 V not 1,7 V
>>>> The Regulator is 12 Volt
>>>> --- In mkars80@..., Steve Drury<steve@> wrote:
>>>>> Hello Harya,
>>>>> What do you mean by the "reff", is this the 5V supply?
>>>>> Measure the 5V supply - is it 5V, if not is the regulator getting
>>> hot?
>>>>> If yes you have a partial short somewhere on the 5V line, if its cold
>>>>> either the regulator is faulty or fitted back to front.
>>>>> Do you have 12V on the input to the regulator?
>>>>> Regards,
>>>>> Steve G6ALU

```
>>>>> On 25/08/2011 19:27, Harya wrote:
>>>>>> Hi Steve,
>>>>>> I have problem with my MKARS 80
>>>>>> Supply display shows " Batt 6.0 Volt " and
>>>>>> Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt
>>>>>> Any Suggestion , to solve this ?
>>>>>> Regards,
>>>>>> Harya S
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>>>>>> Yahoo! Groups Links
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>>>>>> No virus found in this message.
>>>>>> Checked by AVG - www.avg.com
>>>>>> Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date:
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>>>> Yahoo! Groups Links
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>>>> No virus found in this message.
>>>> Checked by AVG - www.avg.com
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3859 - Release Date: 08/26/11
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2226. Re: [mkars80] Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-27 07:29:12 UTC
From: Steve Drury
Topic: 2216 Message: 2226

Harya,

I received your email - I tried to reply but Yahoo said you didn't have
an account!

The chip will be posted today - I do not know how long it will take to
arrive with you in Indonesia but the radio should work in this condition.

Regards,
Steve G6ALU

On 26/08/2011 19:22, Harya Sidharta wrote:
> Steve,I 'v already pull out the IC and the voltage is correct : 3,7 V at pin 17Please
send me the IC, because I try to buy on line but not available to buy only 1
> Regards
>
>
> --- On Fri, 26/8/11, steve@...<steve@...> wrote:
>
> From: steve@...<steve@...>
> Subject: Re: [mkars80] Re: MKARS problem
> To: mkars80@...
> Date: Friday, 26 August, 2011, 1:59 PM
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> Harya,
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> Pull the IC out of the socket and then measure the voltage, if its correct
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>
> then the IC is at fault and I will send you another.
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> Regards,
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> Steve G6ALU
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>
>> Hi SteveI'v already check all value, connection and pcb track,maybe I must
>> replace the IC
>> Thank's
>> --- On Fri, 26/8/11, Harya<haryasidharta@...> wrote:
>> From: Harya<haryasidharta@...>
>> Subject: [mkars80] Re: MKARS problem
>> To: mkars80@...
>> Date: Friday, 26 August, 2011, 2:15 AM
>> Â
>> maybe tomorrow , i ll check all the pcb track
>> ok, thank
>> --- In mkars80@..., Steve Drury<steve@...> wrote:
>>> OK I understand now.
>>> Check the value of R33 and R21, if these are OK check that there are no
>
>>> solder blobs or similar across the PCB track. If all OK remove the micro
>>> and check the voltage at pin 17 again.
>>> Let me know how you get on.
>>> Regards,
>>> Steve G6ALU
>>> On 25/08/2011 19:38, Harya wrote:
>>>> Reff is from voltage table
>>>> pin 17 of IC 2 should be 3.7 V not 1,7 V
>>>> The Regulator is 12 Volt
>>>> --- In mkars80@..., Steve Drury<steve@> wrote:
>>>>> Hello Harya,
>>>>> What do you mean by the "reff", is this the 5V supply?
>>>>> Measure the 5V supply - is it 5V, if not is the regulator getting
>>> hot?
>>>>> If yes you have a partial short somewhere on the 5V line, if its cold

>>>>> either the regulator is faulty or fitted back to front.
>>>>> Do you have 12V on the input to the regulator?
>>>>> Regards,
>>>>> Steve G6ALU
>>>>> On 25/08/2011 19:27, Harya wrote:
>>>>>> Hi Steve,
>>>>>> I have problem with my MKARS 80
>>>>>> Supply display shows " Batt 6.0 Volt " and
>>>>>> Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt
>>>>>> Any Suggestion , to solve this ?
>>>>>> Regards,
>>>>>> Harya S
>>>>>> ------------------------------------
>>>>>> Yahoo! Groups Links
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>>>>>> No virus found in this message.
>>>>>> Checked by AVG - www.avg.com
>>>>>> Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date:
>>> 08/25/11
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>>>> Checked by AVG - www.avg.com
>>>> Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date:
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> No virus found in this message.
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> Version: 10.0.1392 / Virus Database: 1520/3859 - Release Date: 08/26/11
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2227. Re: [mkars80] Re: MKARS problem

Yahoo group: mkars80
Date: 2011-08-28 03:58:05 UTC
From: Harya Sidharta
Topic: 2216 Message: 2227

ok thank you very much

--- On Sat, 27/8/11, Steve Drury <steve@radio-kits.co.uk> wrote:

From: Steve Drury <steve@...>
Subject: Re: [mkars80] Re: MKARS problem
To: mkars80@...
Date: Saturday, 27 August, 2011, 2:29 PM

Harya,

I received your email - I tried to reply but Yahoo said you didn't have

an account!

The chip will be posted today - I do not know how long it will take to

arrive with you in Indonesia but the radio should work in this condition.

Regards,

Steve G6ALU

On 26/08/2011 19:22, Harya Sidharta wrote:

> Steve,I 'v already pull out the IC and the voltage is correct : 3,7 V at pin 17Please send me the IC, because I try to buy on line but not available to buy only 1

> Regards

>

>

> --- On Fri, 26/8/11, steve@...<steve@...> wrote:

>

> From: steve@...<steve@...>

> Subject: Re: [mkars80] Re: MKARS problem

> To: mkars80@...

> Date: Friday, 26 August, 2011, 1:59 PM

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> Harya,

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> Pull the IC out of the socket and then measure the voltage, if its correct

>

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> then the IC is at fault and I will send you another.

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>

> Regards,

>

> Steve G6ALU

>

>

>

>> Hi SteveI'v already check all value, connection and pcb track,maybe I must

>> replace the IC

>> Thank's

>> --- On Fri, 26/8/11, Harya<haryasidharta@...> wrote:

>> From: Harya<haryasidharta@...>

>> Subject: [mkars80] Re: MKARS problem

>> To: mkars80@...

>> Date: Friday, 26 August, 2011, 2:15 AM

>> Â

>> maybe tomorrow , i ll check all the pcb track

>> ok, thank

>> --- In mkars80@yahoogroups.co.uk, Steve Drury<steve@...> wrote:

>>> OK I understand now.

>>> Check the value of R33 and R21, if these are OK check that there are no

>

>>> solder blobs or similar across the PCB track. If all OK remove the micro

>>> and check the voltage at pin 17 again.

>>> Let me know how you get on.

>>> Regards,

>>> Steve G6ALU

>>> On 25/08/2011 19:38, Harya wrote:

>>>> Reff is from voltage table

>>>> pin 17 of IC 2 should be 3.7 V not 1,7 V

>>>> The Regulator is 12 Volt

>>>> --- In mkars80@..., Steve Drury<steve@> wrote:

>>>>> Hello Harya,

>>>>> What do you mean by the "reff", is this the 5V supply?

>>>>> Measure the 5V supply - is it 5V, if not is the regulator getting

>>> hot?

>>>>> If yes you have a partial short somewhere on the 5V line, if its cold

>>>>> either the regulator is faulty or fitted back to front.

>>>>> Do you have 12V on the input to the regulator?

>>>>> Regards,

>>>>> Steve G6ALU

>>>>> On 25/08/2011 19:27, Harya wrote:

>>>>>> Hi Steve,

>>>>>> I have problem with my MKARS 80

>>>>>> Supply display shows " Batt 6.0 Volt " and

>>>>>> Pin 17 voltage is only 1.7 Volt the reff is 3,7 Volt

>>>>>> Any Suggestion , to solve this ?

>>>>>> Regards,

>>>>>> Harya S

>>>>>> ------------------------------------

>>>>>> Yahoo! Groups Links

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>>>>>> Checked by AVG - www.avg.com

>>>>>> Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date:

>>> 08/25/11

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>>>> Yahoo! Groups Links

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>>>> No virus found in this message.

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>>>> Version: 10.0.1392 / Virus Database: 1520/3856 - Release Date:

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> No virus found in this message.

> Checked by AVG - www.avg.com

> Version: 10.0.1392 / Virus Database: 1520/3859 - Release Date: 08/26/11

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2228. Help! C-57

Yahoo group: mkars80
Date: 2011-08-29 15:56:21 UTC
From: sugrob19
Topic: 2228 Message: 2228

Hi all!
There is a need in parameters the variable-capacitance C57.
Please, specify the characteristics of the C57.
Thank you for your attention.

2229. Re: [mkars80] Help! C-57

Yahoo group: mkars80
Date: 2011-08-29 17:38:20 UTC
From: Steve Drury
Topic: 2228 Message: 2229

Hi, data for the capacitor can be found here -
http://www.rapidonline.com/pdf/12-0255.pdf .

Please provide us with a name or call sign so we know whom we are
addressing.

Regards,
Steve G6ALU

On 29/08/2011 16:56, sugrob19 wrote:
> Hi all!
> There is a need in parameters the variable-capacitance C57.
> Please, specify the characteristics of the C57.
> Thank you for your attention.
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3864 - Release Date: 08/28/11
>
>

2230. silicon adhesive?

Yahoo group: mkars80
Date: 2011-08-31 03:50:05 UTC
From: kc9lif
Topic: 2230 Message: 2230

Hi Folks,

Getting ready to install the transformers. I was wondering if anybody has a brand of silicon adhesive that they like? I am not going to stick them down now, but wanted to have on hand when I get to that stage? Thanks.

73, Kent, KC9LIF

2231. Re: silicon adhesive?

Yahoo group: mkars80
Date: 2011-08-31 06:49:35 UTC
From: vk4apn
Topic: 2230 Message: 2231

I used "neutral cure" silicon - a clear Selleys product. Any "neutral cure silicon should be ok.
Paul vk4apn

--- In mkars80@..., "kc9lif" <kbergphd@...> wrote:
>
> Hi Folks,
>
> Getting ready to install the transformers. I was wondering if anybody has a brand of silicon adhesive that they like? I am not going to stick them down now, but wanted to have on hand when I get to that stage? Thanks.
>
> 73, Kent, KC9LIF
>

2232. Re: silicon adhesive?

Yahoo group: mkars80
Date: 2011-08-31 06:53:20 UTC
From: John
Topic: 2230 Message: 2232

Hi Kent.
The basic answer is to use a neutral one which does not smell of acetic acid as it cures.
In the UK Servisol is a very good one and that's what I used.

Please remember to remove all enamel from the wires by tinning with a very hot iron before fitting. Most problems with the transceiver are caused by poor joints on the windings.
It's a good idea to check with a meter after tinning if possible.

I wish you every success.

73,
John G4GCL

2233. Re: [mkars80] Re: silicon adhesive?

Yahoo group: mkars80
Date: 2011-08-31 07:12:54 UTC
From: john boast
Topic: 2230 Message: 2233

I use hot glue - it can be remelted with a soldering iron if things go wrong and it is OK at HF

Stuart
G3WDL

From: vk4apn <pauln@...>
To: mkars80@...
Sent: Wed, 31 August, 2011 7:49:35
Subject: [mkars80] Re: silicon adhesive?

I used "neutral cure" silicon - a clear Selleys product. Any "neutral cure silicon should be ok.
Paul vk4apn

--- In mkars80@..., "kc9lif" <kbergphd@...> wrote:
>
> Hi Folks,
>
> Getting ready to install the transformers. I was wondering if anybody has a
>brand of silicon adhesive that they like? I am not going to stick them down now,
>but wanted to have on hand when I get to that stage? Thanks.
>
> 73, Kent, KC9LIF
>

[Non-text portions of this message have been removed]

2234. Re: [mkars80] Re: silicon adhesive?

Yahoo group: mkars80
Date: 2011-08-31 08:09:24 UTC
From: Steve Drury
Topic: 2230 Message: 2234

AS you only need a small amount of silicon adhesive you may find it
cheaper to buy it from a hobby store where it's used for scrap booking -
make sure it says acid free and doesn't "smell"!

I don't recommend wax or "super glue" - wax makes a mess and super glue
goes everywhere and has to be chiselled off to do any re-work.

Steve G6ALU

On 31/08/2011 07:53, John wrote:
> Hi Kent.
> The basic answer is to use a neutral one which does not smell of acetic
> acid as it cures.
> In the UK Servisol is a very good one and that's what I used.
>
> Please remember to remove all enamel from the wires by tinning with a
> very hot iron before fitting. Most problems with the transceiver are
> caused by poor joints on the windings.
> It's a good idea to check with a meter after tinning if possible.
>
> I wish you every success.
>
> 73,
> John G4GCL
>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3867 - Release Date: 08/30/11
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>

2235. Re: silicon adhesive?

Yahoo group: mkars80
Date: 2011-08-31 13:01:55 UTC
From: panzerbeeb
Topic: 2230 Message: 2235

I find silicone adhesive is a bit too sticky if you have to remove it later for repairs. I use a couple of coats of nail varnish, which has enough sticking power but is easily broken away if needed, besides which you get a nice range of colours :-) A tiny bottle with its own brush lasts for ages in the workshop. Also good for locking trimmers, coil cores, trim pots etc.

Mike G8EEY.
--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> AS you only need a small amount of silicon adhesive you may find it
> cheaper to buy it from a hobby store where it's used for scrap booking -
> make sure it says acid free and doesn't "smell"!
>
> I don't recommend wax or "super glue" - wax makes a mess and super glue
> goes everywhere and has to be chiselled off to do any re-work.
>
> Steve G6ALU
>
> On 31/08/2011 07:53, John wrote:
> > Hi Kent.
> > The basic answer is to use a neutral one which does not smell of acetic
> > acid as it cures.
> > In the UK Servisol is a very good one and that's what I used.
> >
> > Please remember to remove all enamel from the wires by tinning with a
> > very hot iron before fitting. Most problems with the transceiver are
> > caused by poor joints on the windings.
> > It's a good idea to check with a meter after tinning if possible.
> >
> > I wish you every success.
> >
> > 73,
> > John G4GCL
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> > Yahoo! Groups Links
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> > No virus found in this message.

> > Checked by AVG - www.avg.com
> > Version: 10.0.1392 / Virus Database: 1520/3867 - Release Date: 08/30/11
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>

2236. L3?

Yahoo group: mkars80
Date: 2011-09-01 16:39:50 UTC
From: kc9lif
Topic: 2236 Message: 2236

Hi Folks,

I was wondering how much wire I should cut to wind L3? Thanks.

73, Kent KC9LIF

2237. Re: [mkars80] L3?

Yahoo group: mkars80
Date: 2011-09-02 09:14:15 UTC
From: Steve Drury
Topic: 2236 Message: 2237

Kent,

10cms will be plenty as you are only going through the core twice.

Steve G6ALU

On 01/09/2011 17:39, kc9lif wrote:
> Hi Folks,
>
> I was wondering how much wire I should cut to wind L3? Thanks.
>
> 73, Kent KC9LIF
>
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3869 - Release Date: 08/31/11
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>

2238. RE: [mkars80] L3?

Yahoo group: mkars80
Date: 2011-09-02 11:28:41 UTC
From: Kent Berglund PhD
Topic: 2236 Message: 2238

Thanks Steve and thanks for the info on adhesives. Hope that you are feeling better. Kent KC9LIF

To: mkars80@...
From: steve@radio-kits.co.uk
Date: Fri, 2 Sep 2011 10:14:15 +0100
Subject: Re: [mkars80] L3?

Kent,

10cms will be plenty as you are only going through the core twice.

Steve G6ALU

On 01/09/2011 17:39, kc9lif wrote:

> Hi Folks,

>

> I was wondering how much wire I should cut to wind L3? Thanks.

>

> 73, Kent KC9LIF

>

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> No virus found in this message.

> Checked by AVG - www.avg.com

> Version: 10.0.1392 / Virus Database: 1520/3869 - Release Date: 08/31/11

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[Non-text portions of this message have been removed]

2239. Fitting the display

Yahoo group: mkars80
Date: 2011-09-02 16:00:43 UTC
From: Steve Drury
Topic: 2239 Message: 2239

I've added a couple of photos to the photos section (in a separate folder) showing the fitting position of the display relative to the PCB - I have had several queries recently as to the correct position.

Regards,
Steve G6ALU

2240. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2011-09-03 08:35:48 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 2240

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /IMG.pdf
Uploaded by : anil_k_raj <anil_k_raj@...>
Description : MKARS80 Madness in SM3 Land - Group build

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/IMG.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

anil_k_raj <anil_k_raj@...>

2241. Re: [mkars80] New file uploaded to mkars80

Yahoo group: mkars80
Date: 2011-09-03 08:46:43 UTC
From: Steve Drury
Topic: 274 Message: 2241

Thanks for posting that, although I can't read the text the pictures
tell a story. It looks as though a great deal was learned through
building the MKARS80 - the facilities (clean room, benches) look good.

Steve G6ALU

On 03/09/2011 09:35, mkars80@... wrote:
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the mkars80
> group.
>
> File : /IMG.pdf
> Uploaded by : anil_k_raj<anil_k_raj@...>
> Description : MKARS80 Madness in SM3 Land - Group build
>
> You can access this file at the URL:
> http://uk.groups.yahoo.com/group/mkars80/files/IMG.pdf
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/help/uk/groups/files
>
> Regards,
>
> anil_k_raj<anil_k_raj@...>
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3872 - Release Date: 09/02/11
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2242. Re: New file uploaded to mkars80

Yahoo group: mkars80
Date: 2011-09-03 14:37:47 UTC
From: sa3azk
Topic: 274 Message: 2242

I will try to make a translation of the text for you, and yes it was a fun activity :)

/Mike
--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Thanks for posting that, although I can't read the text the pictures
> tell a story. It looks as though a great deal was learned through
> building the MKARS80 - the facilities (clean room, benches) look good.
>
> Steve G6ALU
>
> On 03/09/2011 09:35, mkars80@... wrote:
> > Hello,
> >
> > This email message is a notification to let you know that
> > a file has been uploaded to the Files area of the mkars80
> > group.
> >
> > File : /IMG.pdf
> > Uploaded by : anil_k_raj<anil_k_raj@...>
> > Description : MKARS80 Madness in SM3 Land - Group build
> >
> > You can access this file at the URL:
> > http://uk.groups.yahoo.com/group/mkars80/files/IMG.pdf
> >
> > To learn more about file sharing for your group, please visit:
> > http://help.yahoo.com/help/uk/groups/files
> >
> > Regards,
> >
> > anil_k_raj<anil_k_raj@...>
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1392 / Virus Database: 1520/3872 - Release Date: 09/02/11
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>

2243. Re: New file uploaded to mkars80

Yahoo group: mkars80
Date: 2011-09-03 21:05:00 UTC
From: sa3azk
Topic: 274 Message: 2243

Here is the translated text to go with the uploaded article:

During the spring of 2011 Jemtlands Radio Amateurs, SK3JR, on 13 occasions, conducted a training and construction project with the ultimate goal to paricipate in the scandinavian portable contest May 22.

The interest for this club activity was very big and 14 club members ordered the MKARS80 kit, which is an 5W LSB transceiver for 80 m.

The kit has previously been described briefly in the swedish amaterur radio magazine QTC and is a good opportunity to learn more about how a simple transceiver is built, and an excellent source of inspiration for further experiments with amateur radio electronics.

SM3GFN Ingvar Bergström described in a educational manner all the elements of this transceiver, and how the different parts of the block diagram is built on a component level.

We also had dicussions about what tools was needed to assemble the kit with good results.

To make sure the end result would be as good as possible every one, after an introduction in solderng techniqe, performed a solderng test which was then examined and after any corrections approved.

A transceiver also requires an antenna. And this part was discussed by SM3PXO Petter Gärdin. To show the characteristics of different antenna types, the program EZNEC was used, and every participant built a relatively simple wire dipole with RG 58 C / U as feeder.

The participants had help with tuning and measurement techniques by SM3GHQ Lars Hedstrom and SA3AZK Mikael Andersson.

A website was created in the free software Moodle, where participants had access to discussions, calendar, tips, links and more. You could also ask questions and get help if you needed.

The project was so successful we feel that we need to continue with another project this fall.

SA3AZK / Mike

--- In mkars80@..., "sa3azk" <sa3azk@...> wrote:
>
>
> I will try to make a translation of the text for you, and yes it was a fun activity :)
>
> /Mike
> --- In mkars80@yahoogroups.co.uk, Steve Drury <steve@> wrote:
> >
> > Thanks for posting that, although I can't read the text the pictures

> > tell a story. It looks as though a great deal was learned through
> > building the MKARS80 - the facilities (clean room, benches) look good.
> >
> > Steve G6ALU
> >
> > On 03/09/2011 09:35, mkars80@... wrote:
> > > Hello,
> > >
> > > This email message is a notification to let you know that
> > > a file has been uploaded to the Files area of the mkars80
> > > group.
> > >
> > > File : /IMG.pdf
> > > Uploaded by : anil_k_raj<anil_k_raj@>
> > > Description : MKARS80 Madness in SM3 Land - Group build
> > >
> > > You can access this file at the URL:
> > > http://uk.groups.yahoo.com/group/mkars80/files/IMG.pdf
> > >
> > > To learn more about file sharing for your group, please visit:
> > > http://help.yahoo.com/help/uk/groups/files
> > >
> > > Regards,
> > >
> > > anil_k_raj<anil_k_raj@>
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> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 10.0.1392 / Virus Database: 1520/3872 - Release Date: 09/02/11
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2244. Re: [mkars80] Re: New file uploaded to mkars80

Yahoo group: mkars80
Date: 2011-09-03 21:20:31 UTC
From: Steve Drury
Topic: 274 Message: 2244

Thanks for the translation Mike, very interesting.

Steve G6ALU

On 03/09/2011 22:05, sa3azk wrote:
> Here is the translated text to go with the uploaded article:
>
> During the spring of 2011 Jemtlands Radio Amateurs, SK3JR, on 13 occasions, conducted a training and construction project with the ultimate goal to paricipate in the scandinavian portable contest May 22.
>
> The interest for this club activity was very big and 14 club members ordered the MKARS80 kit, which is an 5W LSB transceiver for 80 m.
>
> The kit has previously been described briefly in the swedish amaterur radio magazine QTC and is a good opportunity to learn more about how a simple transceiver is built, and an excellent source of inspiration for further experiments with amateur radio electronics.
>
> SM3GFN Ingvar Bergstr?m described in a educational manner all the elements of this transceiver, and how the different parts of the block diagram is built on a component level.
>
> We also had dicussions about what tools was needed to assemble the kit with good results.
>
> To make sure the end result would be as good as possible every one, after an introduction in solderng techniqe, performed a solderng test which was then examined and after any corrections approved.
>
> A transceiver also requires an antenna. And this part was discussed by SM3PXO Petter G?rdin. To show the characteristics of different antenna types, the program EZNEC was used, and every participant built a relatively simple wire dipole with RG 58 C / U as feeder.
>
> The participants had help with tuning and measurement techniques by SM3GHQ Lars Hedstrom and SA3AZK Mikael Andersson.
>
> A website was created in the free software Moodle, where participants had access to discussions, calendar, tips, links and more. You could also ask questions and get help if you needed.
>
> The project was so successful we feel that we need to continue with another project this fall.
>
> SA3AZK / Mike
>
> --- In mkars80@..., "sa3azk"<sa3azk@...> wrote:

>>
>> I will try to make a translation of the text for you, and yes it was a fun activity :)
>>
>> /Mike
>> --- In mkars80@..., Steve Drury<steve@> wrote:
>>> Thanks for posting that, although I can't read the text the pictures
>>> tell a story. It looks as though a great deal was learned through
>>> building the MKARS80 - the facilities (clean room, benches) look good.
>>> Steve G6ALU
>>>
>>> On 03/09/2011 09:35, mkars80@... wrote:
>>>> Hello,
>>>>
>>>> This email message is a notification to let you know that
>>>> a file has been uploaded to the Files area of the mkars80
>>>> group.
>>>>
>>>> File : /IMG.pdf
>>>> Uploaded by : anil_k_raj<anil_k_raj@>
>>>> Description : MKARS80 Madness in SM3 Land - Group build
>>>>
>>>> You can access this file at the URL:
>>>> http://uk.groups.yahoo.com/group/mkars80/files/IMG.pdf
>>>>
>>>> To learn more about file sharing for your group, please visit:
>>>> http://help.yahoo.com/help/uk/groups/files
>>>>
>>>> Regards,
>>>>
>>>> anil_k_raj<anil_k_raj@>
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>>>> No virus found in this message.
>>>> Checked by AVG - www.avg.com
>>>> Version: 10.0.1392 / Virus Database: 1520/3872 - Release Date: 09/02/11
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3874 - Release Date: 09/03/11
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2245. Almost done...Extra part?

Yahoo group: mkars80
Date: 2011-09-04 01:01:06 UTC
From: Kent Berglund PhD
Topic: 2245 Message: 2245

Good Evening,

I am on page 11 of the manual ready to install LED, and fuse, and I seem to have an extra part. When I did the inventory, I thought that I had accounted for all the parts, but here it is and I cant see that it goes anywhere and all the slots are filled as far as I can tell. It looks like a transistor with the marking CC33780 with w80 below. It has a silver face. I attached a picture of it. Anybody know what this is?

Thanks, Kent KC9LIF

[Non-text portions of this message have been removed]

2246. Re: Almost done...Extra part?

Yahoo group: mkars80
Date: 2011-09-04 04:44:22 UTC
From: John
Topic: 2245 Message: 2246

Hi Kent.
It's early morning here & I can't sleep so I've being trying to imagine what it is!

Unfortunately attachments are not allowed and so the picture was removed. If you would like to send it to my personal email address at the top of this message rather than the group I will have a look. Steve will recognise the markings immediately I'm sure but perhaps I will be able to help in the short term.

The only thing I can imagine with that description is Q1 the IRF510 PA transistor but that was fitted on page 10 unless you left it out to measure against the case? How many leads does it have?

Please contact me if you haven't sorted it out yet. Persevere it's a really great kit.

73,
John G4GCL

2247. Re: [mkars80] Almost done...Extra part?

Yahoo group: mkars80
Date: 2011-09-04 08:40:16 UTC
From: Steve Drury
Topic: 2245 Message: 2247

Kent,

This should be a BC337-40 - I can't see from the photo exactly what's written on the device but for some reason they run the numbers into each other causing confusion.

Steve G6ALU

On 04/09/2011 02:01, Kent Berglund PhD wrote:
> Good Evening,
>
> I am on page 11 of the manual ready to install LED, and fuse, and I seem to have an extra part. When I did the inventory, I thought that I had accounted for all the parts, but here it is and I cant see that it goes anywhere and all the slots are filled as far as I can tell. It looks like a transistor with the marking CC33780 with w80 below. It has a silver face. I attached a picture of it. Anybody know what this is?
>
> Thanks, Kent KC9LIF
>
> [Non-text portions of this message have been removed]
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3874 - Release Date: 09/03/11
>
>

2248. Re: New file uploaded to mkars80

Yahoo group: mkars80
Date: 2011-09-04 17:02:44 UTC
From: Philip
Topic: 274 Message: 2248

Thanks for that Mike...
I enjoy reading anything about the MKARS80

Regards
Philip G4JVF

--- In mkars80@..., "sa3azk" <sa3azk@...> wrote:
>
> Here is the translated text to go with the uploaded article:
>
> During the spring of 2011 Jemtlands Radio Amateurs, SK3JR, on 13 occasions, conducted a training and construction project with the ultimate goal to paricipate in the scandinavian portable contest May 22.
>
> The interest for this club activity was very big and 14 club members ordered the MKARS80 kit, which is an 5W LSB transceiver for 80 m.
>
> The kit has previously been described briefly in the swedish amaterur radio magazine QTC and is a good opportunity to learn more about how a simple transceiver is built, and an excellent source of inspiration for further experiments with amateur radio electronics.
>
> SM3GFN Ingvar Bergström described in a educational manner all the elements of this transceiver, and how the different parts of the block diagram is built on a component level.
>
> We also had dicussions about what tools was needed to assemble the kit with good results.
>
> To make sure the end result would be as good as possible every one, after an introduction in solderng techniqe, performed a solderng test which was then examined and after any corrections approved.
>
> A transceiver also requires an antenna. And this part was discussed by SM3PXO Petter Gärdin. To show the characteristics of different antenna types, the program EZNEC was used, and every participant built a relatively simple wire dipole with RG 58 C / U as feeder.
>
> The participants had help with tuning and measurement techniques by SM3GHQ Lars Hedstrom and SA3AZK Mikael Andersson.
>
> A website was created in the free software Moodle, where participants had access to discussions, calendar, tips, links and more. You could also ask questions and get help if you needed.
>
> The project was so successful we feel that we need to continue with another project this fall.
>

> SA3AZK / Mike
>
> --- In mkars80@..., "sa3azk" <sa3azk@> wrote:
> >
> >
> > I will try to make a translation of the text for you, and yes it was a fun activity :)
> >
> > /Mike
> > --- In mkars80@..., Steve Drury <steve@> wrote:
> > >
> > > Thanks for posting that, although I can't read the text the pictures
> > > tell a story. It looks as though a great deal was learned through
> > > building the MKARS80 - the facilities (clean room, benches) look good.
> > >
> > > Steve G6ALU
> > >
> > > On 03/09/2011 09:35, mkars80@... wrote:
> > > > Hello,
> > > >
> > > > This email message is a notification to let you know that
> > > > a file has been uploaded to the Files area of the mkars80
> > > > group.
> > > >
> > > > File : /IMG.pdf
> > > > Uploaded by : anil_k_raj<anil_k_raj@>
> > > > Description : MKARS80 Madness in SM3 Land - Group build
> > > >
> > > > You can access this file at the URL:
> > > > http://uk.groups.yahoo.com/group/mkars80/files/IMG.pdf
> > > >
> > > > To learn more about file sharing for your group, please visit:
> > > > http://help.yahoo.com/help/uk/groups/files
> > > >
> > > > Regards,
> > > >
> > > > anil_k_raj<anil_k_raj@>
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2249. Microphone mod?

Yahoo group: mkars80
Date: 2011-09-04 17:39:25 UTC
From: kc9lif
Topic: 2249 Message: 2249

Hi Everyone,

I am just starting alignment phase. I got great audio the first time I plugged it in. I have a cheap microphone that I use for other project. So I don't have to cut off jack-plug, I wanted to make a box with a Stereo jack input, a PTT push-button switch, and another stereo jack output. I am a little unsure of how to hook this up. I am assuming to connect the input jack Plug tip to the output jack Plug tip. Then the output jack middle contact to PTT switch. Then the input jack Middle contact and the PTT switch ground to the output jack outer contact. This assumes that in the microphone plug the middle contact is microphone- and can be grounded? That way I have a nice PTT box that I can interchange microphones with.

Thanks, Kent KC9LIF

2250. Re: [mkars80] Microphone mod?

Yahoo group: mkars80
Date: 2011-09-04 17:47:23 UTC
From: Steve Drury
Topic: 2249 Message: 2250

Kent,

I'm glad its all working for you so far..... remember to set the BFO frequency and set the PA bias etc.

Re the microphone all sounds good except perhaps connecting the input middle contact to ground, you may find your microphone is connected to both middle contact and tip so connecting the middle to ground may short it out. Suggest you make no connection to the input socket middle contact.

Steve G6ALU

On 04/09/2011 18:39, kc9lif wrote:
> Hi Everyone,
>
> I am just starting alignment phase. I got great audio the first time I plugged it in. I have a cheap microphone that I use for other project. So I don't have to cut off jack-plug, I wanted to make a box with a Stereo jack input, a PTT push-button switch, and another stereo jack output. I am a little unsure of how to hook this up. I am assuming to connect the input jack Plug tip to the output jack Plug tip. Then the output jack middle contact to PTT switch. Then the input jack Middle contact and the PTT switch ground to the output jack outer contact. This assumes that in the microphone plug the middle contact is microphone- and can be grounded? That way I have a nice PTT box that I can interchange microphones with.
>
> Thanks, Kent KC9LIF
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3876 - Release Date: 09/04/11
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2251. Re: Microphone mod?

Yahoo group: mkars80
Date: 2011-09-04 20:17:29 UTC
From: kc9lif
Topic: 2249 Message: 2251

OK, Will proceed with setting BFO and PA bias. One step at a time. Just wanted some input on my mike mod when I got to that point, will proceed as you suggest and leave mike input middle unconnected. Thanks again.

Kent, KC9LIF

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Kent,
>
> I'm glad its all working for you so far..... remember to set the BFO
> frequency and set the PA bias etc.
>
> Re the microphone all sounds good except perhaps connecting the input
> middle contact to ground, you may find your microphone is connected to
> both middle contact and tip so connecting the middle to ground may short
> it out. Suggest you make no connection to the input socket middle contact.
>
> Steve G6ALU
>
> On 04/09/2011 18:39, kc9lif wrote:
> > Hi Everyone,
> >
> > I am just starting alignment phase. I got great audio the first time I plugged it in. I have a cheap microphone that I use for other project. So I don't have to cut off jack-plug, I wanted to make a box with a Stereo jack input, a PTT push-button switch, and another stereo jack output. I am a little unsure of how to hook this up. I am assuming to connect the input jack Plug tip to the output jack Plug tip. Then the output jack middle contact to PTT switch. Then the input jack Middle contact and the PTT switch ground to the output jack outer contact. This assumes that in the microphone plug the middle contact is microphone- and can be grounded? That way I have a nice PTT box that I can interchange microphones with.
> >
> > Thanks, Kent KC9LIF
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1392 / Virus Database: 1520/3876 - Release Date: 09/04/11
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2252. Almost there...?

Yahoo group: mkars80
Date: 2011-09-05 22:06:04 UTC
From: kc9lif
Topic: 2252 Message: 2252

Hi Everyone,

I think I am almost there. I have it in the box. I wanted to get some feedback on a couple of things.
1) When adjusting R2, I press PTT and get 250ma. When I was raising to increase 50ma+/-5ma, when I got close to 300ma it jumped up to 340 to 350 and higher, when I stopped not to overdrive Q1. I backed off and pressed PTT and it was 280s, and when I raised it past 290 it would jump around and go to 340 or higher. It was super sensitive. Just wanted to know if that others had experienced that or is this a problem?

2)In adjusting R59 and C103...When I press PTT with the Mike, or stereo jack with all leads shorted, I am not getting a small reading on the wattmeter (30w FS) to be reduced. When I put the output on the scope, it is about 200 or so milivolts. What should I be seeing there?

Now that I have Q1 heatsinked, I will repeat these tests if needed.

3)On the MKARS80 page of Radio-Kits website There is a picture of the front panel with diamond80, which is different from the panel overlay that I found. Is that available anywhere? Anybody tried using a decal? Just wanted to know.

I really like this kit and I know the radio is receiving great. Looking for an opportunity to see how she Tx's. Thanks.

73, Kent KC9LIF

2253. Re: [mkars80] Almost there...?

Yahoo group: mkars80
Date: 2011-09-06 18:40:58 UTC
From: Steve Drury
Topic: 2252 Message: 2253

Kent,
My answers in your text:

On 05/09/2011 23:06, kc9lif wrote:
> Hi Everyone,
>
> I think I am almost there. I have it in the box. I wanted to get some feedback on a couple of things.
> 1) When adjusting R2, I press PTT and get 250ma. When I was raising to increase 50ma+/-5ma, when I got close to 300ma it jumped up to 340 to 350 and higher, when I stopped not to overdrive Q1. I backed off and pressed PTT and it was 280s, and when I raised it past 290 it would jump around and go to 340 or higher. It was super sensitive. Just wanted to know if that others had experienced that or is this a problem?
The adjustment is sensitive - have you set the BFO for 10MHz? If not the BFO oscilator leaking through the filter can cause problems causing this type of symptom.
>
> 2)In adjusting R59 and C103...When I press PTT with the Mike, or stereo jack with all leads shorted, I am not getting a small reading on the wattmeter (30w FS) to be reduced. When I put the output on the scope, it is about 200 or so milivolts. What should I be seeing there?
Its normal to get it down lower than this, perhaps 40mV or less. These controls are interactive though - again if the BFO isn't adjusted correctly you may get a higher reading.
>
> Now that I have Q1 heatsinked, I will repeat these tests if needed.
>
> 3)On the MKARS80 page of Radio-Kits website There is a picture of the front panel with diamond80, which is different from the panel overlay that I found. Is that available anywhere? Anybody tried using a decal? Just wanted to know.
The overlay you are referring to was drawn by John M0TIF, its our club badge - why not try making your own front panel its quite easy with one of the paint programs.

Regards,
Steve G6ALU
>
> I really like this kit and I know the radio is receiving great. Looking for an opportunity to see how she Tx's. Thanks.
>
> 73, Kent KC9LIF
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1392 / Virus Database: 1520/3880 - Release Date: 09/06/11
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>

2254. RE: [mkars80] Almost there...?

Yahoo group: mkars80
Date: 2011-09-07 17:39:27 UTC
From: Kent Berglund PhD
Topic: 2252 Message: 2254

Ok Steve,

1) I did set the BFO to 10Mhz and I just checked it again and it was 10Mhz.
2) I also went back and adjusted R59 and C103 and got that down to 50mv p-p. That seems to be the minimum. I just tuned it up to a frequency that I use quite frequently and it seems to be holding steady. It still was a litte touchy getting there. I don't no if that is a warming up problem or not. It will take some time to tell that. But, I think, that the drifting problem I was experiencing seems to be gone. After about 5-10 minutes it drifted or moved to 720 hz. The fine tune doesn't seem to change the frequency smoothly, sometimes, moving knob with no corresponding increase or decrease in frequency, and it jumps back 20 hertz when I take my finger off the control. I will have to watch to see what happens. Any ideas what might be causing that?

Anyway Yeah!! I am loving this radio!!

3) Sorry, I forgot that was the club logo. I was a member for a couple of years, but let my membership laps. That is a great idea. I have Office 2010, Paint, a scanner, and a lot of imagination. This little beauty deserves an image all of it is own. I will up load what I come up with.

Again Steve, thanks for have a lot of patience with this old yank. It is greatly appreciated.

73, Kent KC9LIF

To: mkars80@...
From: steve@radio-kits.co.uk
Date: Tue, 6 Sep 2011 19:40:58 +0100
Subject: Re: [mkars80] Almost there...?

Kent,

My answers in your text:

On 05/09/2011 23:06, kc9lif wrote:

> Hi Everyone,

>

> I think I am almost there. I have it in the box. I wanted to get some feedback on a couple of things.

> 1) When adjusting R2, I press PTT and get 250ma. When I was raising to increase 50ma+/-5ma, when I got close to 300ma it jumped up to 340 to 350 and higher, when I stopped not to overdrive Q1. I backed off and pressed PTT and it was 280s, and when I raised it past 290 it would jump around and go to 340 or higher. It was super sensitive. Just wanted to know if that others had experienced that or is this a problem?

The adjustment is sensitive - have you set the BFO for 10MHz? If not the

BFO oscilator leaking through the filter can cause problems causing this

type of symptom.

>

> 2)In adjusting R59 and C103...When I press PTT with the Mike, or stereo jack with all leads shorted, I am not getting a small reading on the wattmeter (30w FS) to be reduced. When I put the output on the scope, it is about 200 or so milivolts. What should I be seeing there?

Its normal to get it down lower than this, perhaps 40mV or less. These

controls are interactive though - again if the BFO isn't adjusted

correctly you may get a higher reading.

>

> Now that I have Q1 heatsinked, I will repeat these tests if needed.

>

> 3)On the MKARS80 page of Radio-Kits website There is a picture of the front panel with diamond80, which is different from the panel overlay that I found. Is that available anywhere? Anybody tried using a decal? Just wanted to know.

The overlay you are referring to was drawn by John M0TIF, its our club

badge - why not try making your own front panel its quite easy with one

of the paint programs.

Regards,

Steve G6ALU

>

> I really like this kit and I know the radio is receiving great. Looking for an opportunity to see how she Tx's. Thanks.

>

> 73, Kent KC9LIF

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> Yahoo! Groups Links

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> No virus found in this message.

> Checked by AVG - www.avg.com

> Version: 10.0.1392 / Virus Database: 1520/3880 - Release Date: 09/06/11

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[Non-text portions of this message have been removed]

2255. MKARS 80 Talk by Steve GALU at Verulam ARC (St Albans)

Yahoo group: mkars80
Date: 2011-09-16 14:13:11 UTC
From: Mick-M0MMI
Topic: 2255 Message: 2255

Hello MKARS 80 Group,

If you live in the UK and not too far from St Albans Hertfordsire, you are invited to Verulam Amature Radio Clubs next Club Meeting on Tuesday 20th September (19.30 for 20.00 start)where we are delighted to have Steve Dury G6ALU as our guest speaker. Steve will be talking about the MKARS 80 5W SSB Transceiver, the Digaital SWR Meter plus other kits and projects (http://www.radio-kits.co.uk/) We are all very much looking forward to hearing about Steve's latest project an SDR HF multi band receiver/panadapter which we hope will be available soon.

So, if you want to find out more about Radio-Kits come along to our Club Night, directions here http://www.radioclubs.net/verulam/contact.php click on EVENTS for a map for Aboyne Lodge School, Etna Road St Albans. AL3 5NJ. We look forward to seeing you.

73 Mick-M0MMI

2256. Re: Just finished a Digital SWR meter build from Radio-Kits

Yahoo group: mkars80
Date: 2011-09-17 11:27:29 UTC
From: vk4apn
Topic: 2223 Message: 2256

Have been using mine for a few weeks now too......another really well thought out project.

A real bargain price, excellent quality PCB and parts, an absolute pleasure to build and use, congrats to whomever put this project together!

Paul vk4apn

--- In mkars80@..., "Philip" <pcteee@...> wrote:
>
> Another great kit fro Radio-Kits, easy to build
> and a bargain considering the number of components
> and quality PCB.
>
> Built it to complement my MKARS80 with CW addon and
> it works exactly as it says on the tin.
> The power meter is going to be a godsend whilst tweaking
> my many QRP TX projects.....
>
> Great fun :)
>
> Regards
> Philip G4JVF
>

2257. Re: [mkars80] Re: Just finished a Digital SWR meter build from Radio-Kits

Yahoo group: mkars80
Date: 2011-09-17 12:22:30 UTC
From: Steve Drury
Topic: 2223 Message: 2257

Thanks for the comments... we try to get the kits "right" before putting
them on the market.

Steve G6ALU

On 17/09/2011 12:27, vk4apn wrote:
> Have been using mine for a few weeks now too......another really well thought out
project.
>
> A real bargain price, excellent quality PCB and parts, an absolute pleasure to build and
use, congrats to whomever put this project together!
>
> Paul vk4apn
>
> --- In mkars80@..., "Philip"<pcteee@...> wrote:
>> Another great kit fro Radio-Kits, easy to build
>> and a bargain considering the number of components
>> and quality PCB.
>>
>> Built it to complement my MKARS80 with CW addon and
>> it works exactly as it says on the tin.
>> The power meter is going to be a godsend whilst tweaking
>> my many QRP TX projects.....
>>
>> Great fun :)
>>
>> Regards
>> Philip G4JVF
>>
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1410 / Virus Database: 1520/3901 - Release Date: 09/16/11
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2258. Wanted - low cost used cw transceiver.

Yahoo group: mkars80
Date: 2011-09-24 22:36:32 UTC
From: mailer4096
Topic: 2258 Message: 2258

I am looking for a low cost used cw transceiver.

Ideally something cheap and cheerful.

HF or 2 M

I am in Central London.

Regards.

2259. Re: Wanted - low cost used cw transceiver.

Yahoo group: mkars80
Date: 2011-09-25 23:14:28 UTC
From: Mike Lichtman
Topic: 2258 Message: 2259

You might want to look the MFJ 9400 series with the CW adapter. Ten tec also has some nice QRP CW xcvrs. 73 Mike KF6KXG

2260. 500Khz off Frequency

Yahoo group: mkars80
Date: 2011-10-01 12:17:53 UTC
From: g3zdr
Topic: 2260 Message: 2260

Hello all!! my 80 is operational and rxing BUT 4000Khz is the lowest I can set the freq and it rises to 4500Khz despite settings of C38 the tuning caps and the trimmers.

What sets the freq? Have I wound the coil next to C38 wrong (not enough turns?) or something else?

Any suggestions welcome,

Paul VK3IH / G3ZDR

2261. Re: [mkars80] 500Khz off Frequency

Yahoo group: mkars80
Date: 2011-10-01 20:27:09 UTC
From: Steve Drury
Topic: 2260 Message: 2261

Evening Paul,

Your VFO is running too low in frequency - the VFO frequency can be calculated from IF (10MHz) - signal frequency.

Some one has had this before but I can't remember the cause - try and count the number of turns on the inductor then check all the capcitors are in the correct places.

Some times you can break a PCB pad from the adjoining track, it might be worth checking continuity between all tracks in the VFO. There is a plot of the track side print in the files section http://uk.groups.yahoo.com/group/mkars80/files/ called MKARS 80.pdf <http://f1.grp.yahoofs.com/v1/QHGHTnCYkcj5BDoKUrjw4IPkvs-SuMPrl3tG6k7ujcdYdbVBGke9V2rSEBtb_fybg7CuGEP9gkadN7OXTNPYUw/MKARS%2080.pdf>
.

Let us know how you get on.

Regards,
Steve G6ALU

On 01/10/2011 13:17, g3zdr wrote:
> Hello all!! my 80 is operational and rxing BUT 4000Khz is the lowest I can set the freq and it rises to 4500Khz despite settings of C38 the tuning caps and the trimmers.
>
> What sets the freq? Have I wound the coil next to C38 wrong (not enough turns?) or something else?
>
> Any suggestions welcome,
>
> Paul VK3IH / G3ZDR
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> No virus found in this message.
> Checked by AVG - www.avg.com

> Version: 10.0.1410 / Virus Database: 1520/3931 - Release Date: 10/01/11
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[Non-text portions of this message have been removed]

2263. Re: 500Khz off Frequency

Yahoo group: mkars80
Date: 2011-10-04 10:05:55 UTC
From: g3zdr
Topic: 2260 Message: 2263

Thanks Steve, as I suspected and you confirmed, wrong number of turns on the VFO coil (proves I can't count) all RXing well now thanks!

regards

Paul VK3IH / G3ZDR

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Evening Paul,
>
> Your VFO is running too low in frequency - the VFO frequency can be
> calculated from IF (10MHz) - signal frequency.
>
> Some one has had this before but I can't remember the cause - try and
> count the number of turns on the inductor then check all the capcitors
> are in the correct places.
>
> Some times you can break a PCB pad from the adjoining track, it might be
> worth checking continuity between all tracks in the VFO. There is a plot
> of the track side print in the files section
> http://uk.groups.yahoo.com/group/mkars80/files/ called MKARS 80.pdf
> <http://f1.grp.yahoofs.com/v1/QHGHTnCYkcj5BDoKUrjw4IPkvs-SuMPrl3tG6k7ujcdYdbVBGke9V2rSEBtb_fybg7CuGEP9gkadN7OXTNPYUw/MKARS%2080.pdf>
> .
>
> Let us know how you get on.
>
> Regards,
> Steve G6ALU
>
>
> On 01/10/2011 13:17, g3zdr wrote:
> > Hello all!! my 80 is operational and rxing BUT 4000Khz is the lowest I can set the freq and it rises to 4500Khz despite settings of C38 the tuning caps and the trimmers.
> >
> > What sets the freq? Have I wound the coil next to C38 wrong (not enough turns?) or something else?
> >
> > Any suggestions welcome,
> >
> > Paul VK3IH / G3ZDR
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> > Version: 10.0.1410 / Virus Database: 1520/3931 - Release Date: 10/01/11
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2264. Re: [mkars80] Re: 500Khz off Frequency

Yahoo group: mkars80
Date: 2011-10-04 18:55:30 UTC
From: Steve Drury
Topic: 2260 Message: 2264

Glad its working OK now Paul.

Steve G6ALU

On 04/10/2011 11:05, g3zdr wrote:
> Thanks Steve, as I suspected and you confirmed, wrong number of turns on the VFO coil (proves I can't count) all RXing well now thanks!
>
> regards
>
> Paul VK3IH / G3ZDR
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> Evening Paul,
>>
>> Your VFO is running too low in frequency - the VFO frequency can be
>> calculated from IF (10MHz) - signal frequency.
>>
>> Some one has had this before but I can't remember the cause - try and
>> count the number of turns on the inductor then check all the capcitors
>> are in the correct places.
>>
>> Some times you can break a PCB pad from the adjoining track, it might be
>> worth checking continuity between all tracks in the VFO. There is a plot
>> of the track side print in the files section
>> http://uk.groups.yahoo.com/group/mkars80/files/ called MKARS 80.pdf
>> <http://f1.grp.yahoofs.com/v1/QHGHTnCYkcj5BDoKUrjw4IPkvs-SuMPrl3tG6k7ujcdYdbVBGke9V2rSEBtb_fybg7CuGEP9gkadN7OXTNPYUw/MKARS%2080.pdf>
>> .
>>
>> Let us know how you get on.
>>
>> Regards,
>> Steve G6ALU
>>
>>
>> On 01/10/2011 13:17, g3zdr wrote:
>>> Hello all!! my 80 is operational and rxing BUT 4000Khz is the lowest I can set the freq and it rises to 4500Khz despite settings of C38 the tuning caps and the trimmers.
>>>
>>> What sets the freq? Have I wound the coil next to C38 wrong (not enough turns?) or something else?
>>>
>>> Any suggestions welcome,
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>>> Paul VK3IH / G3ZDR
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> Version: 10.0.1410 / Virus Database: 1520/3937 - Release Date: 10/04/11
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2265. Rig progressing well :)

Yahoo group: mkars80
Date: 2011-10-04 20:38:10 UTC
From: Colin
Topic: 2265 Message: 2265

Hi all,

My name is Colin, and my call sign is M0CGH. I started building kits before I was licensed in 1997. My first transceiver kit was a Walford's Sparkford, 1.5W CW rig, which I bought to celebrate gaining my class A licence in 1999. Since then I have built many CW rigs, including some homebrew ones.

I have had quite a few comments at my radio club as to why I'd never built a 'phone' rig. I decided it was time to shut them up, so I ordered the MKARS 80 last month.

My MKARS 80 package arrived about 3 weeks ago, I have been steadily building it since then. I have powered up the rig for it's initial 'smoke test' this evening and I'm glad to say that all seems to be well and I've even received some German broadcast stations using a random length of wire strung across the room.

I'm now going to get started with the 'metal bashing'.

Hopefully within the next week or so I'll have the rig more or less finished. I want to paint the case black, so I'll have to wait for some decent weather to do the spraying outside.

I think the quality of the kit is superb, everything has gone together so well.

Well done Steve, I think you have done an amazing job!

The new SDR looks very tasty too!

73
Colin
M0CGH
Kit building addict :-)

2266. Re: Rig progressing well :)

Yahoo group: mkars80
Date: 2011-10-05 10:36:00 UTC
From: Philip
Topic: 2265 Message: 2266

Well done Colin....
Love mine to bits, a fantastic little rig...
Recently added the CW kit and the power/sdr kit to mine
and it's made a "proper" little complete 80M station..

Enjoy

Regards
Philip G4JVF

--- In mkars80@yahoogroups.co.uk, "Colin" <m0cgh@...> wrote:
>
> Hi all,
>
> My name is Colin, and my call sign is M0CGH. I started building kits before I was licensed in 1997. My first transceiver kit was a Walford's Sparkford, 1.5W CW rig, which I bought to celebrate gaining my class A licence in 1999. Since then I have built many CW rigs, including some homebrew ones.
>
> I have had quite a few comments at my radio club as to why I'd never built a 'phone' rig. I decided it was time to shut them up, so I ordered the MKARS 80 last month.
>
> My MKARS 80 package arrived about 3 weeks ago, I have been steadily building it since then. I have powered up the rig for it's initial 'smoke test' this evening and I'm glad to say that all seems to be well and I've even received some German broadcast stations using a random length of wire strung across the room.
>
> I'm now going to get started with the 'metal bashing'.
>
> Hopefully within the next week or so I'll have the rig more or less finished. I want to paint the case black, so I'll have to wait for some decent weather to do the spraying outside.
>
> I think the quality of the kit is superb, everything has gone together so well.
>
> Well done Steve, I think you have done an amazing job!
>
> The new SDR looks very tasty too!
>
> 73
> Colin
> M0CGH
> Kit building addict :-)
>

2267. ebay sales

Yahoo group: mkars80
Date: 2011-10-09 19:22:50 UTC
From: Steve Drury
Topic: 2267 Message: 2267

Its inevitable that with so many MKARS80 sold there will be the
occasional one appear on ebay, the latest is here, cut and paste all the
link into your web browser or search ebay for item 190585804694:

http://rover.ebay.com/rover/0/e11021.m45.l1123/7?euid=11137985ca28465abb7e8bffae7f6f24&loc
=http%3A%2F%2Fcgi.ebay.co.uk%2Fws%2FeBayISAPI.dll%3FViewItem%26item%3D190585804694%26ssPag
eName%3DADME%3AB%3ASS%3AGB%3A1123

It looks good but I don't have first hand knowledge of it, would
probably be good for the person who doesn't want to or can't construct
the radio.

Steve G6ALU

2270. Rig now up and working!

Yahoo group: mkars80
Date: 2011-10-09 22:34:46 UTC
From: g3zdr
Topic: 2270 Message: 2270

after a few weeks of 'stealing time' from busy life the rig is up and running. I put a call into the 'bottleshop' net (valve enthusiasts) on Friday night and 20 plus stations across southern Australia in VK3 VK5 VK7 gave 5/9 plus reports.

Now to install it in an old Yaesu VFO box I set aside for the job. I have another kit that I will build up and put in the MKARS box.

I have built other TCVR projects from gather all the bits to kits, this one is very nicely designed and easy to build.

Paul

VK3IH / G3ZDR

2271. Rig alignment

Yahoo group: mkars80
Date: 2011-10-12 17:32:08 UTC
From: Colin
Topic: 2271 Message: 2271

Today I began the twiddling. My radio was consuming 243 mA at first with R2 fully anti-clockwise. I managed to adjust this to 293mA ok.

The 10MHz BFO seemed to be pretty much spot on and steady when sniffed by a Spectrum Analyser at my work.

I seem to be struggling to understand the alignment of the mixer. What setting of R59 is correct? As I wound the pot down, the signal seen on the oscilloscope kept reducing until at one point, the signal would reduce no more. Is the idea to take the pot down until minimum level is seen and then leave it at that setting, or is it ok to twiddle some more? A quick tweak of C103 brought the level of signal at the BNC down to 68mV, this is the best I could achieve. I'm a bit worried about the setting of R59 though.

A quick play with a few words into the microphone seemed to put out the modulation LED quite quickly, what is the best way to ensure the modulation is ok? Is it a case of listening to the TX audio on another rig? If the microphone is overdriving the rig what do I do about it (apart from not talking as loud!)?

My target was to get my rig finished for 13th October because I am displaying my collection of home built radios at my local club, I want the MKARS80 to take it's place in the centre of the display. I'm quite pleased to see that my goal has almost been reached :)

73
Colin
M0CCGH

2272. Re: [mkars80] Rig alignment

Yahoo group: mkars80
Date: 2011-10-12 19:27:22 UTC
From: Steve Drury
Topic: 2271 Message: 2272

Evening Colin,

All seems to be good - you will find the optimum setting of R59 and C103 are interdependent, after adjusting one repeat the adjustment of the other until you get the carrier as low as possible; I suspect you are near to this level now.

Just talk so the LED flickers off, I doubt that anyone will complain about your intermodulation! You can listen to yourself on another rig but make sure you use headphones or you will get feedback, you could record yourself and criticise the audio on playback.

You are right in your suggestion to cure over-driving, don't speak so loud or if its a serious problem adjust the microphone amplifier gain - I will look up the appropriate resistor if you need it.

Have fun,
Steve G6ALU

On 12/10/2011 18:32, Colin wrote:
> Today I began the twiddling. My radio was consuming 243 mA at first with R2 fully anti-clockwise. I managed to adjust this to 293mA ok.
>
> The 10MHz BFO seemed to be pretty much spot on and steady when sniffed by a Spectrum Analyser at my work.
>
> I seem to be struggling to understand the alignment of the mixer. What setting of R59 is correct? As I wound the pot down, the signal seen on the oscilloscope kept reducing until at one point, the signal would reduce no more. Is the idea to take the pot down until minimum level is seen and then leave it at that setting, or is it ok to twiddle some more? A quick tweak of C103 brought the level of signal at the BNC down to 68mV, this is the best I could achieve. I'm a bit worried about the setting of R59 though.
>
> A quick play with a few words into the microphone seemed to put out the modulation LED quite quickly, what is the best way to ensure the modulation is ok? Is it a case of listening to the TX audio on another rig? If the microphone is overdriving the rig what do I do about it (apart from not talking as loud!)?
>
> My target was to get my rig finished for 13th October because I am displaying my collection of home built radios at my local club, I want the MKARS80 to take it's place in the centre of the display. I'm quite pleased to see that my goal has almost been reached :)
>
> 73
> Colin
> M0CCGH
>

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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1410 / Virus Database: 1522/3948 - Release Date: 10/12/11
>
>

2273. Re: Rig alignment

Yahoo group: mkars80
Date: 2011-10-12 21:32:39 UTC
From: Colin
Topic: 2271 Message: 2273

Thanks for the encouragement Steve.

I've had a good search through this group and I've come to the conclusion that I hadn't just got the BFO exactly right. I tried to measure the BFO on a 20MHz Oscilloscope at work this morning, the machine didn't seem very good and the reading was a bit jumpy. My colleague then invited me to measure the BFO on a Spectrum Analyser. We probed the test point through a coupling capacitor and a nice spike at 10MHz showed on the display, I suggested some fine tuning but my colleague was pretty happy that the signal was at 10MHz.

I'm going to have another go tomorrow at work at optimising the BFO and mixer.

I have a 2 Watt FSD power/SWR meter and the meter doesn't move a bit until you speak into the mike, so the carrier is very small. I used my FT817 to listen to the carrier whilst transmitting into a dummy load and I couldn't even detect the carrier! I did record myself coming out of the FT817 and the audio sounds good to me and compares well to other recordings I've made of SSB transmissions.

The rig is fantastic and I'm really looking forward to my first QSO with it.

I'm gonna say it again, I can't fault anything about the rig - the quality is superb, in fact in my opinion, the circuit board in my example looks every bit as good, if not better, than a commercial radio. Everything worked as it should, first time.

Great kit Steve!

Thanks and 73

Colin
M0CGH

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Evening Colin,
>
> All seems to be good - you will find the optimum setting of R59 and C103
> are interdependent, after adjusting one repeat the adjustment of the
> other until you get the carrier as low as possible; I suspect you are
> near to this level now.
>
> Just talk so the LED flickers off, I doubt that anyone will complain
> about your intermodulation! You can listen to yourself on another rig
> but make sure you use headphones or you will get feedback, you could
> record yourself and criticise the audio on playback.
>
> You are right in your suggestion to cure over-driving, don't speak so
> loud or if its a serious problem adjust the microphone amplifier gain -
> I will look up the appropriate resistor if you need it.

>
> Have fun,
> Steve G6ALU

2274. Re: [mkars80] Re: Rig alignment

Yahoo group: mkars80
Date: 2011-10-12 21:38:12 UTC
From: Steve Drury
Topic: 2271 Message: 2274

Thanks for the compliments Colin,

I would suggest you check the BFO frequency with another instrument - a spectrum analyser isn't the best piece of equipment for measuring frequency accurately.

Regards,
Steve G6ALU

On 12/10/2011 22:32, Colin wrote:
>
>
>
> Thanks for the encouragement Steve.
>
> I've had a good search through this group and I've come to the conclusion that I hadn't just got the BFO exactly right. I tried to measure the BFO on a 20MHz Oscilloscope at work this morning, the machine didn't seem very good and the reading was a bit jumpy. My colleague then invited me to measure the BFO on a Spectrum Analyser. We probed the test point through a coupling capacitor and a nice spike at 10MHz showed on the display, I suggested some fine tuning but my colleague was pretty happy that the signal was at 10MHz.
>
> I'm going to have another go tomorrow at work at optimising the BFO and mixer.
>
> I have a 2 Watt FSD power/SWR meter and the meter doesn't move a bit until you speak into the mike, so the carrier is very small. I used my FT817 to listen to the carrier whilst transmitting into a dummy load and I couldn't even detect the carrier! I did record myself coming out of the FT817 and the audio sounds good to me and compares well to other recordings I've made of SSB transmissions.
>
> The rig is fantastic and I'm really looking forward to my first QSO with it.
>
> I'm gonna say it again, I can't fault anything about the rig - the quality is superb, in fact in my opinion, the circuit board in my example looks every bit as good, if not better, than a commercial radio. Everything worked as it should, first time.
>
> Great kit Steve!
>
> Thanks and 73
>
> Colin
> M0CGH
>
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> Evening Colin,

>>
>> All seems to be good - you will find the optimum setting of R59 and C103
>> are interdependent, after adjusting one repeat the adjustment of the
>> other until you get the carrier as low as possible; I suspect you are
>> near to this level now.
>>
>> Just talk so the LED flickers off, I doubt that anyone will complain
>> about your intermodulation! You can listen to yourself on another rig
>> but make sure you use headphones or you will get feedback, you could
>> record yourself and criticise the audio on playback.
>>
>> You are right in your suggestion to cure over-driving, don't speak so
>> loud or if its a serious problem adjust the microphone amplifier gain -
>> I will look up the appropriate resistor if you need it.
>>
>> Have fun,
>> Steve G6ALU
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1410 / Virus Database: 1522/3948 - Release Date: 10/12/11
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2275. Re: Rig alignment

Yahoo group: mkars80
Date: 2011-10-13 07:31:29 UTC
From: Colin
Topic: 2271 Message: 2275

I've cracked it!

I used an RF probe and my DMM to measure the RF whilst adjusting R59 and c103. I managed to get the reading down to 0V. At this point I knew I must be getting close.

This morning I fired up the oscilloscope again and I found that I could reduce the carrier to about 10mV p-p. I'm well happy with this. It would seem that yesterday i didn't have the BFO set right.

I consider my radio finished now! :)

Hopefully I'll get to try for a QSO this evening.

Thanks for everything you've done Steve.

73
Colin

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Thanks for the compliments Colin,
>
> I would suggest you check the BFO frequency with another instrument - a
> spectrum analyser isn't the best piece of equipment for measuring
> frequency accurately.
>
> Regards,
> Steve G6ALU

2276. Re: [mkars80] Re: Rig alignment

Yahoo group: mkars80
Date: 2011-10-13 17:07:45 UTC
From: Steve Drury
Topic: 2271 Message: 2276

OK Colin, let us know how you get on.

Steve G6ALU

On 13/10/2011 08:31, Colin wrote:
> I've cracked it!
>
> I used an RF probe and my DMM to measure the RF whilst adjusting R59 and c103. I managed to get the reading down to 0V. At this point I knew I must be getting close.
>
> This morning I fired up the oscilloscope again and I found that I could reduce the carrier to about 10mV p-p. I'm well happy with this. It would seem that yesterday i didn't have the BFO set right.
>
> I consider my radio finished now! :)
>
> Hopefully I'll get to try for a QSO this evening.
>
> Thanks for everything you've done Steve.
>
> 73
> Colin
>
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> Thanks for the compliments Colin,
>>
>> I would suggest you check the BFO frequency with another instrument - a
>> spectrum analyser isn't the best piece of equipment for measuring
>> frequency accurately.
>>
>> Regards,
>> Steve G6ALU
>
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1411 / Virus Database: 1522/3949 - Release Date: 10/13/11
>
>

2277. Free download the radioamateur Handbook 2012 by F6BCU

Yahoo group: mkars80
Date: 2011-10-16 12:25:05 UTC
From: F6BCU
Topic: 2277 Message: 2277

god day to all

free download the radio amateur handbook by F6BCU 580 MO

2100 pages 225 articles schématic, QRP, antenna, color photo

10GHz to 160m

http://communaute.onlineradio.fr/files/file/162-handbook-de-la-ligne-bleue/

73

F6BCU

2278. Re: Free download the radioamateur Handbook 2012 by F6BCU

Yahoo group: mkars80
Date: 2011-10-16 12:40:31 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 2277 Message: 2278

A nice freebee but worth being aware that this is a nearly 600Mb download and it's also all in french.

Slim G4IPZ

--- In mkars80@..., "F6BCU" <f6bcu@...> wrote:
>
> god day to all
>
> free download the radio amateur handbook by F6BCU 580 MO
>
> 2100 pages 225 articles schématic, QRP, antenna, color photo
>
> 10GHz to 160m
>
> http://communaute.onlineradio.fr/files/file/162-handbook-de-la-ligne-bleue/
>
> 73
>
> F6BCU
>

2279. Initial testing phase

Yahoo group: mkars80
Date: 2011-11-02 23:44:44 UTC
From: Greg McGann
Topic: 2279 Message: 2279

'Measure between supply positive and ground with a multi-meter on Ohms range to ensure there is not a short circuit, typical values will fall in
the range 1k6 to 2k0. Note that if you reverse connect the meter IE red lead to ground and black lead to positive the reverse protection diode resistance will be measured.'

What value should the reverse protection diode be? It's the same value as the other way round... (1.97 k)

Greg

2280. Re: [mkars80] Initial testing phase

Yahoo group: mkars80
Date: 2011-11-03 08:09:26 UTC
From: steve@radio-kits.co.uk
Topic: 2279 Message: 2280

Greg,

Diodes read differently on different meters, your measurement sounds
OK.

Steve G6ALU

On Wed, 02 Nov 2011 23:44:44 -0000, Greg McGann wrote:
> 'Measure between supply positive and ground with a multi-meter on
> Ohms range to ensure there is not a short circuit, typical values
> will
> fall in
> the range 1k6 to 2k0. Note that if you reverse connect the meter IE
> red lead to ground and black lead to positive the reverse protection
> diode resistance will be measured.'
>
> What value should the reverse protection diode be? It's the same
> value as the other way round... (1.97 k)
>
> Greg
>
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> Yahoo! Groups Links
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2281. Re: Initial testing phase

Yahoo group: mkars80
Date: 2011-11-03 11:08:32 UTC
From: Greg McGann
Topic: 2279 Message: 2281

It's just that both values are identical at that measured value, both ways round. It just looks really suspicious!
I had to use quite a lot of heat on d3, (massive pad on the ground connection especially).
Anyhow wouldn't the voltage on a dmm be too low to overcome the forward bias voltage (on voltage) for the diode? Or perhaps I've been overcome by the effects of the lead solder I'm so partial to using!
Perhaps someone out there could dig out their dmm to put me more at ease...

Greg

--- In mkars80@....uk, steve@... wrote:
>
> Greg,
>
> Diodes read differently on different meters, your measurement sounds
> OK.
>
> Steve G6ALU
>
> On Wed, 02 Nov 2011 23:44:44 -0000, Greg McGann wrote:
> > 'Measure between supply positive and ground with a multi-meter on
> > Ohms range to ensure there is not a short circuit, typical values
> > will
> > fall in
> > the range 1k6 to 2k0. Note that if you reverse connect the meter IE
> > red lead to ground and black lead to positive the reverse protection
> > diode resistance will be measured.'
> >
> > What value should the reverse protection diode be? It's the same
> > value as the other way round... (1.97 k)
> >
> > Greg
> >
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

2282. Re: [mkars80] Initial testing phase

Yahoo group: mkars80
Date: 2011-11-03 11:24:18 UTC
From: Hans Wagndal
Topic: 2279 Message: 2282

Hi!
My Mkars80 has now good funktion.
I have wound a new T4 andT6 mixer and now I have a very good reciever.
When I send they say there are some hum. Wen I send from Batteri Acumulator they can not hear any Hum.
I must do anything and build a better Power supply
I must have 2A or 3A without any Hum.
Do you have any chema skits for a good power supply.
My transmitter give about 6W out in a Dipol.(2x 19,26m) No balun.
Were can I trim the freqvens a little?A cuppel of hundred Hz
SA7BMZ in the middel of Öland Sweden.
Hans.
To: mkars80@...
Sent: Thursday, November 03, 2011 9:09 AM
Subject: Re: [mkars80] Initial testing phase

Greg,

Diodes read differently on different meters, your measurement sounds
OK.

Steve G6ALU

On Wed, 02 Nov 2011 23:44:44 -0000, Greg McGann wrote:
> 'Measure between supply positive and ground with a multi-meter on
> Ohms range to ensure there is not a short circuit, typical values
> will
> fall in
> the range 1k6 to 2k0. Note that if you reverse connect the meter IE
> red lead to ground and black lead to positive the reverse protection
> diode resistance will be measured.'
>
> What value should the reverse protection diode be? It's the same
> value as the other way round... (1.97 k)
>
> Greg
>
>
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>
> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

2283. Re: [mkars80] Re: Initial testing phase

Yahoo group: mkars80
Date: 2011-11-03 14:43:58 UTC
From: John
Topic: 2279 Message: 2283

Hi Greg.
I have measured my working MKARS80 with the following results:-

Red lead to centre pin of power socket +ve ---> 1.945Kohm
Black lead to centre pin of power socket +ve ---> 1.932Kohm

Diode range:-

Red lead to centre pin of power socket +ve ---> 610 Millivolts
Black lead to centre pin of power socket +ve ---> 472 Millivolts

Both resistance readings taken after stabilisation of meter due to caps
charging. Meter is a Hioki 3804-50

I hope that's of some use.

Regards,
John G4GCL

On 03/11/2011 11:08, Greg McGann wrote:
>
> It's just that both values are identical at that measured value, both
> ways round. It just looks really suspicious!
> I had to use quite a lot of heat on d3, (massive pad on the ground
> connection especially).
> Anyhow wouldn't the voltage on a dmm be too low to overcome the
> forward bias voltage (on voltage) for the diode? Or perhaps I've been
> overcome by the effects of the lead solder I'm so partial to using!
> Perhaps someone out there could dig out their dmm to put me more at
> ease...
>
> Greg
>
> --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk>,
> steve@... wrote:
> >
> > Greg,
> >
> > Diodes read differently on different meters, your measurement sounds
> > OK.
> >
> > Steve G6ALU
> >
> > On Wed, 02 Nov 2011 23:44:44 -0000, Greg McGann wrote:
> > > 'Measure between supply positive and ground with a multi-meter on
> > > Ohms range to ensure there is not a short circuit, typical values
> > > will

> > > fall in
> > > the range 1k6 to 2k0. Note that if you reverse connect the meter IE
> > > red lead to ground and black lead to positive the reverse protection
> > > diode resistance will be measured.'
> > >
> > > What value should the reverse protection diode be? It's the same
> > > value as the other way round... (1.97 k)
> > >
> > > Greg
> > >
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[Non-text portions of this message have been removed]

2284. Re: Initial testing phase

Yahoo group: mkars80
Date: 2011-11-03 16:37:18 UTC
From: Greg McGann
Topic: 2279 Message: 2284

Many thanks sir! You're a true gent.

--- In mkars80@..., John <john@...> wrote:
>
> Hi Greg.
> I have measured my working MKARS80 with the following results:-
>
> Red lead to centre pin of power socket +ve ---> 1.945Kohm
> Black lead to centre pin of power socket +ve ---> 1.932Kohm
>
> Diode range:-
>
> Red lead to centre pin of power socket +ve ---> 610 Millivolts
> Black lead to centre pin of power socket +ve ---> 472 Millivolts
>
> Both resistance readings taken after stabilisation of meter due to caps
> charging. Meter is a Hioki 3804-50
>
> I hope that's of some use.
>
> Regards,
> John G4GCL
>
>
> On 03/11/2011 11:08, Greg McGann wrote:
> >
> > It's just that both values are identical at that measured value, both
> > ways round. It just looks really suspicious!
> > I had to use quite a lot of heat on d3, (massive pad on the ground
> > connection especially).
> > Anyhow wouldn't the voltage on a dmm be too low to overcome the
> > forward bias voltage (on voltage) for the diode? Or perhaps I've been
> > overcome by the effects of the lead solder I'm so partial to using!
> > Perhaps someone out there could dig out their dmm to put me more at
> > ease...
> >
> > Greg
> >
> > --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk>,
> > steve@ wrote:
> > >
> > > Greg,
> > >
> > > Diodes read differently on different meters, your measurement sounds
> > > OK.

> > >
> > > Steve G6ALU
> > >
> > > On Wed, 02 Nov 2011 23:44:44 -0000, Greg McGann wrote:
> > > > 'Measure between supply positive and ground with a multi-meter on
> > > > Ohms range to ensure there is not a short circuit, typical values
> > > > will
> > > > fall in
> > > > the range 1k6 to 2k0. Note that if you reverse connect the meter IE
> > > > red lead to ground and black lead to positive the reverse protection
> > > > diode resistance will be measured.'
> > > >
> > > > What value should the reverse protection diode be? It's the same
> > > > value as the other way round... (1.97 k)
> > > >
> > > > Greg
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> [Non-text portions of this message have been removed]
>

2285. Re: [mkars80] Re: Initial testing phase

Yahoo group: mkars80
Date: 2011-11-03 22:38:36 UTC
From: Steve Drury
Topic: 2279 Message: 2285

Thanks for answering John, I've been away from the PC for most of the day.

Steve G6ALU

On 03/11/2011 14:43, John wrote:
> Hi Greg.
> I have measured my working MKARS80 with the following results:-
>
> Red lead to centre pin of power socket +ve ---> 1.945Kohm
> Black lead to centre pin of power socket +ve ---> 1.932Kohm
>
> Diode range:-
>
> Red lead to centre pin of power socket +ve ---> 610 Millivolts
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>
> Both resistance readings taken after stabilisation of meter due to caps
> charging. Meter is a Hioki 3804-50
>
> I hope that's of some use.
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> Regards,
> John G4GCL
>
>
> On 03/11/2011 11:08, Greg McGann wrote:
>> It's just that both values are identical at that measured value, both
>> ways round. It just looks really suspicious!
>> I had to use quite a lot of heat on d3, (massive pad on the ground
>> connection especially).
>> Anyhow wouldn't the voltage on a dmm be too low to overcome the
>> forward bias voltage (on voltage) for the diode? Or perhaps I've been
>> overcome by the effects of the lead solder I'm so partial to using!
>> Perhaps someone out there could dig out their dmm to put me more at
>> ease...
>>
>> Greg
>>
>> --- In mkars80@...<mailto:mkars80%40yahoogroups.co.uk>,
>> steve@... wrote:
>>> Greg,
>>>
>>> Diodes read differently on different meters, your measurement sounds
>>> OK.
>>>

>>> Steve G6ALU
>>>
>>> On Wed, 02 Nov 2011 23:44:44 -0000, Greg McGann wrote:
>>>> 'Measure between supply positive and ground with a multi-meter on
>>>> Ohms range to ensure there is not a short circuit, typical values
>>>> will
>>>> fall in
>>>> the range 1k6 to 2k0. Note that if you reverse connect the meter IE
>>>> red lead to ground and black lead to positive the reverse protection
>>>> diode resistance will be measured.'
>>>>
>>>> What value should the reverse protection diode be? It's the same
>>>> value as the other way round... (1.97 k)
>>>>
>>>> Greg
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1834 / Virus Database: 2092/4591 - Release Date: 11/02/11
>
>

2286. Re: [mkars80] Initial testing phase

Yahoo group: mkars80
Date: 2011-11-03 22:41:52 UTC
From: Steve Drury
Topic: 2279 Message: 2286

Hello Hans,
Trim the frequency with preset C83, this also adjusts the BFO frequency.

I don't have any circuits for power supplies - I use my MKARS80 from a
battery as its often used portable. Try a Google search for the power
supply, you need at least 1.2Amps, would suggest building one for 1.5 Amps +

Steve G6ALU

On 03/11/2011 11:24, Hans Wagndal wrote:
> Hi!
> My Mkars80 has now good funktion.
> I have wound a new T4 andT6 mixer and now I have a very good reciever.
> When I send they say there are some hum. Wen I send from Batteri Acumulator they can not
hear any Hum.
> I must do anything and build a better Power supply
> I must have 2A or 3A without any Hum.
> Do you have any chema skits for a good power supply.
> My transmitter give about 6W out in a Dipol.(2x 19,26m) No balun.
> Were can I trim the freqvens a little?A cuppel of hundred Hz
> SA7BMZ in the middel of Öland Sweden.
> Hans.
> To: mkars80@...
> Sent: Thursday, November 03, 2011 9:09 AM
> Subject: Re: [mkars80] Initial testing phase
>
>
>
> Greg,
>
> Diodes read differently on different meters, your measurement sounds
> OK.
>
> Steve G6ALU
>
> On Wed, 02 Nov 2011 23:44:44 -0000, Greg McGann wrote:
> > 'Measure between supply positive and ground with a multi-meter on
> > Ohms range to ensure there is not a short circuit, typical values
> > will
> > fall in
> > the range 1k6 to 2k0. Note that if you reverse connect the meter IE
> > red lead to ground and black lead to positive the reverse protection
> > diode resistance will be measured.'
> >
> > What value should the reverse protection diode be? It's the same
> > value as the other way round... (1.97 k)

> >
> > Greg
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> > ------------------------------------
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> > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1834 / Virus Database: 2092/4591 - Release Date: 11/02/11
>
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>

2287. First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-09 15:16:10 UTC
From: simonmcgraw@btinternet.com
Topic: 2287 Message: 2287

Hi, I have finally got to complete my rig and started the initial test.Everything has been fine up to setting R2PA bias current. My base reading is 120mA (rather than around 230mA)going to 260mA with R2 fully anticlockwise on pushing the PTT.

I am unsure where to look next and would appreciate any advice.

Thank you for your help

Simon

2288. Re: [mkars80] First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-09 15:45:29 UTC
From: John
Topic: 2287 Message: 2288

Hi Simon.
I'm sure Steve will jump in here as soon as he reads your message but just to clarify things are you saying that with the PTT closed, no sound if the microphone is connected, and R2 fully anticlockwise the current is 260mA or 120mA?

At 260mA it seems slightly high but in my limited opinion not too much. If, with the PTT closed, you turn R2 *slightly* clockwise does the current increase? Don't keep it in transmit for more than a few seconds without a heatsink.
I found the best way to make sure there was no external sound affecting it was to make the shorting plug as described for the PTT.

I'm sure by the time you have clarified that Steve will be here with plenty of ideas!

John.

On 09/11/2011 15:16, simonmcgraw@... wrote:
>
> Hi, I have finally got to complete my rig and started the initial
> test.Everything has been fine up to setting R2PA bias current. My base
> reading is 120mA (rather than around 230mA)going to 260mA with R2
> fully anticlockwise on pushing the PTT.
>
> I am unsure where to look next and would appreciate any advice.
>
> Thank you for your help
>
> Simon
>
>

[Non-text portions of this message have been removed]

2289. Re: [mkars80] First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-09 15:48:12 UTC
From: John
Topic: 2287 Message: 2289

Sorry Simon I just saw the header "low current" forgive my incompetence;-)

Try increasing R2 slightly and look for an increase as I suggested.

John.

On 09/11/2011 15:45, John wrote:
>
> Hi Simon.
> I'm sure Steve will jump in here as soon as he reads your message but
> just to clarify things are you saying that with the PTT closed, no sound
> if the microphone is connected, and R2 fully anticlockwise the current
> is 260mA or 120mA?
>
> At 260mA it seems slightly high but in my limited opinion not too much.
> If, with the PTT closed, you turn R2 *slightly* clockwise does the
> current increase? Don't keep it in transmit for more than a few seconds
> without a heatsink.
> I found the best way to make sure there was no external sound affecting
> it was to make the shorting plug as described for the PTT.
>
> I'm sure by the time you have clarified that Steve will be here with
> plenty of ideas!
>
> John.
>
> On 09/11/2011 15:16, simonmcgraw@...
> <mailto:simonmcgraw%40btinternet.com> wrote:
> >
> > Hi, I have finally got to complete my rig and started the initial
> > test.Everything has been fine up to setting R2PA bias current. My base
> > reading is 120mA (rather than around 230mA)going to 260mA with R2
> > fully anticlockwise on pushing the PTT.
> >
> > I am unsure where to look next and would appreciate any advice.
> >
> > Thank you for your help
> >
> > Simon
> >
> >
>
> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

2290. Re: [mkars80] First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-09 15:58:24 UTC
From: steve@radio-kits.co.uk
Topic: 2287 Message: 2290

Simon,

Assuming you are using a 12 - 14V power supply the base current (current with PTT pressed and R2 fully anti-clockwise) is too low. Check out the circuit around Q5 - note that this transistor will get quite warm / hot during operation.

If you have fitted the transistor the wrong way round (been done before!) let me know as its best to fit a replacement.

Steve G6ALU

On Wed, 09 Nov 2011 15:48:12 +0000, John wrote:
> Sorry Simon I just saw the header "low current" forgive my
> incompetence;-)
>
> Try increasing R2 slightly and look for an increase as I suggested.
>
> John.
>
> On 09/11/2011 15:45, John wrote:
>>
>> Hi Simon.
>> I'm sure Steve will jump in here as soon as he reads your message
>> but
>> just to clarify things are you saying that with the PTT closed, no
>> sound
>> if the microphone is connected, and R2 fully anticlockwise the
>> current
>> is 260mA or 120mA?
>>
>> At 260mA it seems slightly high but in my limited opinion not too
>> much.
>> If, with the PTT closed, you turn R2 *slightly* clockwise does the
>> current increase? Don't keep it in transmit for more than a few
>> seconds
>> without a heatsink.
>> I found the best way to make sure there was no external sound
>> affecting
>> it was to make the shorting plug as described for the PTT.
>>
>> I'm sure by the time you have clarified that Steve will be here with
>> plenty of ideas!
>>
>> John.
>>

>> On 09/11/2011 15:16, simonmcgraw@...
>> <mailto:simonmcgraw%40btinternet.com> wrote:
>> >
>> > Hi, I have finally got to complete my rig and started the initial
>> > test.Everything has been fine up to setting R2PA bias current. My
>> base
>> > reading is 120mA (rather than around 230mA)going to 260mA with R2
>> > fully anticlockwise on pushing the PTT.
>> >
>> > I am unsure where to look next and would appreciate any advice.
>> >
>> > Thank you for your help
>> >
>> > Simon
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> Yahoo! Groups Links
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2291. RE: [mkars80] First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-09 16:05:22 UTC
From: Simon McGraw
Topic: 2287 Message: 2291

Hi John

Thank you for your feedback.

The instructions suggest a 50mA increase when the PTT is pressed, the lowest
I can get is a 140mA increase, going higher still as I rotate R2 clockwise.

I was wondering if the receive current was too low, and where I should go
looking for a problem

Simon

_____

From: mkars80@... [mailto:mkars80@...] On Behalf
Of John
Sent: 09 November 2011 15:48
To: mkars80@...
Subject: Re: [mkars80] First Power up ?low current

Sorry Simon I just saw the header "low current" forgive my incompetence;-)

Try increasing R2 slightly and look for an increase as I suggested.

John.

On 09/11/2011 15:45, John wrote:
>
> Hi Simon.
> I'm sure Steve will jump in here as soon as he reads your message but
> just to clarify things are you saying that with the PTT closed, no sound
> if the microphone is connected, and R2 fully anticlockwise the current
> is 260mA or 120mA?
>
> At 260mA it seems slightly high but in my limited opinion not too much.
> If, with the PTT closed, you turn R2 *slightly* clockwise does the
> current increase? Don't keep it in transmit for more than a few seconds
> without a heatsink.
> I found the best way to make sure there was no external sound affecting
> it was to make the shorting plug as described for the PTT.
>
> I'm sure by the time you have clarified that Steve will be here with
> plenty of ideas!
>
> John.
>
> On 09/11/2011 15:16, simonmcgraw@...

<mailto:simonmcgraw%40btinternet.com>
> <mailto:simonmcgraw%40btinternet.com> wrote:
> >
> > Hi, I have finally got to complete my rig and started the initial
> > test.Everything has been fine up to setting R2PA bias current. My base
> > reading is 120mA (rather than around 230mA)going to 260mA with R2
> > fully anticlockwise on pushing the PTT.
> >
> > I am unsure where to look next and would appreciate any advice.
> >
> > Thank you for your help
> >
> > Simon
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2292. RE: [mkars80] First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-09 16:07:06 UTC
From: Simon McGraw
Topic: 2287 Message: 2292

Thanks Steve, I will look at this tonight. Fitting the transistor the wrong way round is well within my capabilities!

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf Of steve@...
Sent: 09 November 2011 15:58
To: mkars80@...
Subject: Re: [mkars80] First Power up ?low current

Simon,

Assuming you are using a 12 - 14V power supply the base current (current with PTT pressed and R2 fully anti-clockwise) is too low. Check out the circuit around Q5 - note that this transistor will get quite warm / hot during operation.

If you have fitted the transistor the wrong way round (been done before!) let me know as its best to fit a replacement.

Steve G6ALU

On Wed, 09 Nov 2011 15:48:12 +0000, John wrote:
> Sorry Simon I just saw the header "low current" forgive my
> incompetence;-)
>
> Try increasing R2 slightly and look for an increase as I suggested.
>
> John.
>
> On 09/11/2011 15:45, John wrote:
>>
>> Hi Simon.
>> I'm sure Steve will jump in here as soon as he reads your message
>> but
>> just to clarify things are you saying that with the PTT closed, no
>> sound
>> if the microphone is connected, and R2 fully anticlockwise the
>> current
>> is 260mA or 120mA?
>>
>> At 260mA it seems slightly high but in my limited opinion not too
>> much.
>> If, with the PTT closed, you turn R2 *slightly* clockwise does the

>> current increase? Don't keep it in transmit for more than a few
>> seconds
>> without a heatsink.
>> I found the best way to make sure there was no external sound
>> affecting
>> it was to make the shorting plug as described for the PTT.
>>
>> I'm sure by the time you have clarified that Steve will be here with
>> plenty of ideas!
>>
>> John.
>>
>> On 09/11/2011 15:16, simonmcgraw@...
<mailto:simonmcgraw%40btinternet.com>
>> <mailto:simonmcgraw%40btinternet.com> wrote:
>> >
>> > Hi, I have finally got to complete my rig and started the initial
>> > test.Everything has been fine up to setting R2PA bias current. My
>> base
>> > reading is 120mA (rather than around 230mA)going to 260mA with R2
>> > fully anticlockwise on pushing the PTT.
>> >
>> > I am unsure where to look next and would appreciate any advice.
>> >
>> > Thank you for your help
>> >
>> > Simon
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2293. Re: First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-14 11:19:35 UTC
From: mmeerman
Topic: 2287 Message: 2293

Hi,

I seem to have the same issue here.
Just finished building the kit and reception is already great! The whole of europe on a piece of wire of about 5m hanging out of the window. The RX current is about 100mA, less than half what the instructions suggest. Using a dummyload, I adjusted R2 to minimum increase while transmitting, but cannot get it below 110mA increase, with R2 fully anti-clockwise (ie. to 210mA). Tried with a disconnected microphone, but it makes no difference.
Turning R2 only makes it higher. Input voltage is 11.7V, according to the digital display, and it stays like that during TX.
Apart from adjusting the frequency offset, and R2, I have not tuned anything else yet, but on TX I can hear myself talking on a nearby radio tuned to 80m SSB.
How critical is this initial current and increase?
73's
Michael M0MPM

--- In mkars80@..., Simon McGraw <simonmcgraw@...> wrote:
>
> Hi John
>
> Thank you for your feedback.
>
> The instructions suggest a 50mA increase when the PTT is pressed, the lowest
> I can get is a 140mA increase, going higher still as I rotate R2 clockwise.
>
> I was wondering if the receive current was too low, and where I should go
> looking for a problem
>
>
>
> Simon
>
>
>
> _____
>
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of John
> Sent: 09 November 2011 15:48
> To: mkars80@...
> Subject: Re: [mkars80] First Power up ?low current
>
>
>

>
>
> Sorry Simon I just saw the header "low current" forgive my incompetence;-)
>
> Try increasing R2 slightly and look for an increase as I suggested.
>
> John.
>
> On 09/11/2011 15:45, John wrote:
> >
> > Hi Simon.
> > I'm sure Steve will jump in here as soon as he reads your message but
> > just to clarify things are you saying that with the PTT closed, no sound
> > if the microphone is connected, and R2 fully anticlockwise the current
> > is 260mA or 120mA?
> >
> > At 260mA it seems slightly high but in my limited opinion not too much.
> > If, with the PTT closed, you turn R2 *slightly* clockwise does the
> > current increase? Don't keep it in transmit for more than a few seconds
> > without a heatsink.
> > I found the best way to make sure there was no external sound affecting
> > it was to make the shorting plug as described for the PTT.
> >
> > I'm sure by the time you have clarified that Steve will be here with
> > plenty of ideas!
> >
> > John.
> >
> > On 09/11/2011 15:16, simonmcgraw@...
> <mailto:simonmcgraw%40btinternet.com>
> > <mailto:simonmcgraw%40btinternet.com> wrote:
> > >
> > > Hi, I have finally got to complete my rig and started the initial
> > > test.Everything has been fine up to setting R2PA bias current. My base
> > > reading is 120mA (rather than around 230mA)going to 260mA with R2
> > > fully anticlockwise on pushing the PTT.
> > >
> > > I am unsure where to look next and would appreciate any advice.
> > >
> > > Thank you for your help
> > >
> > > Simon
> > >
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2294. Re: [mkars80] Re: First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-14 11:34:46 UTC
From: steve@radio-kits.co.uk
Topic: 2287 Message: 2294

Hi Michael,
I think you are getting confused with regrad the adjustment procedure.

An extract from the manual:

"press the PTT and note the current drawn. Adjust R2 for an increase of
50 ± 5mA. For
example, before adjustment (R2 fully anti-clockwise) the current was
230mA, in this example when correctly adjusted the current will be
275 – 285mA. Note as the components warm up that the current will
rise – do not transmit for more than a few seconds if Q1 isn't fitted
with a heatsink or it will overheat."

So start with R2 fully anti-clockwise, press the PTT and measure the
current - with a 11.7V supply this may only be 210mA. Whilst still
pressing the PTT adjust R2 CAREFULLY until the current rises by 50mA.

Note these measurements are taken in transmit mode with the PTT pressed
and don't relate to recieve current.

Let us know how you get on.

Steve G6ALU

On Mon, 14 Nov 2011 11:19:35 -0000, mmeerman wrote:
> Hi,
>
> I seem to have the same issue here.
> Just finished building the kit and reception is already great! The
> whole of europe on a piece of wire of about 5m hanging out of the
> window. The RX current is about 100mA, less than half what the
> instructions suggest. Using a dummyload, I adjusted R2 to minimum
> increase while transmitting, but cannot get it below 110mA increase,
> with R2 fully anti-clockwise (ie. to 210mA). Tried with a
> disconnected
> microphone, but it makes no difference.
> Turning R2 only makes it higher. Input voltage is 11.7V, according to
> the digital display, and it stays like that during TX.
> Apart from adjusting the frequency offset, and R2, I have not tuned
> anything else yet, but on TX I can hear myself talking on a nearby
> radio tuned to 80m SSB.
> How critical is this initial current and increase?
> 73's
> Michael M0MPM
>
> --- In mkars80@..., Simon McGraw <simonmcgraw@...>
> wrote:

>>
>> Hi John
>>
>> Thank you for your feedback.
>>
>> The instructions suggest a 50mA increase when the PTT is pressed,
>> the lowest
>> I can get is a 140mA increase, going higher still as I rotate R2
>> clockwise.
>>
>> I was wondering if the receive current was too low, and where I
>> should go
>> looking for a problem
>>
>>
>>
>> Simon
>>
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>> _____
>>
>> From: mkars80@... [mailto:mkars80@...]
>> On Behalf
>> Of John
>> Sent: 09 November 2011 15:48
>> To: mkars80@...
>> Subject: Re: [mkars80] First Power up ?low current
>>
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>>
>>
>> Sorry Simon I just saw the header "low current" forgive my
>> incompetence;-)
>>
>> Try increasing R2 slightly and look for an increase as I suggested.
>>
>> John.
>>
>> On 09/11/2011 15:45, John wrote:
>> >
>> > Hi Simon.
>> > I'm sure Steve will jump in here as soon as he reads your message
>> but
>> > just to clarify things are you saying that with the PTT closed, no
>> sound
>> > if the microphone is connected, and R2 fully anticlockwise the
>> current
>> > is 260mA or 120mA?

>> >
>> > At 260mA it seems slightly high but in my limited opinion not too
>> much.
>> > If, with the PTT closed, you turn R2 *slightly* clockwise does the
>> > current increase? Don't keep it in transmit for more than a few
>> seconds
>> > without a heatsink.
>> > I found the best way to make sure there was no external sound
>> affecting
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>> > I'm sure by the time you have clarified that Steve will be here
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>> > John.
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>> <mailto:simonmcgraw%40btinternet.com>
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>> > >
>> > > Hi, I have finally got to complete my rig and started the
>> initial
>> > > test.Everything has been fine up to setting R2PA bias current.
>> My base
>> > > reading is 120mA (rather than around 230mA)going to 260mA with
>> R2
>> > > fully anticlockwise on pushing the PTT.
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>> > > I am unsure where to look next and would appreciate any advice.
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>> > > Thank you for your help
>> > >
>> > > Simon
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2295. RE: [mkars80] Re: First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-14 12:02:44 UTC
From: Simon McGraw
Topic: 2287 Message: 2295

Hi Steve

I think I have misunderstood this part of the manual too.

I checked Q5 as you suggested and around it but was unable to find anything wrong.

I also thought the base level was a receive current, not the transmit current which is increased by moving R2

I understand the setup better now, thank you

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf Of steve@...
Sent: 14 November 2011 11:35
To: mkars80@...
Subject: Re: [mkars80] Re: First Power up ?low current

Hi Michael,
I think you are getting confused with regrad the adjustment procedure.

An extract from the manual:

"press the PTT and note the current drawn. Adjust R2 for an increase of 50 ± 5mA. For example, before adjustment (R2 fully anti-clockwise) the current was 230mA, in this example when correctly adjusted the current will be 275 □ 285mA. Note as the components warm up that the current will rise □ do not transmit for more than a few seconds if Q1 isn□t fitted with a heatsink or it will overheat."

So start with R2 fully anti-clockwise, press the PTT and measure the current - with a 11.7V supply this may only be 210mA. Whilst still pressing the PTT adjust R2 CAREFULLY until the current rises by 50mA.

Note these measurements are taken in transmit mode with the PTT pressed and don't relate to recieve current.

Let us know how you get on.

Steve G6ALU

On Mon, 14 Nov 2011 11:19:35 -0000, mmeerman wrote:
> Hi,

>
> I seem to have the same issue here.
> Just finished building the kit and reception is already great! The
> whole of europe on a piece of wire of about 5m hanging out of the
> window. The RX current is about 100mA, less than half what the
> instructions suggest. Using a dummyload, I adjusted R2 to minimum
> increase while transmitting, but cannot get it below 110mA increase,
> with R2 fully anti-clockwise (ie. to 210mA). Tried with a
> disconnected
> microphone, but it makes no difference.
> Turning R2 only makes it higher. Input voltage is 11.7V, according to
> the digital display, and it stays like that during TX.
> Apart from adjusting the frequency offset, and R2, I have not tuned
> anything else yet, but on TX I can hear myself talking on a nearby
> radio tuned to 80m SSB.
> How critical is this initial current and increase?
> 73's
> Michael M0MPM
>
> --- In mkars80@yahoogroups.co.uk <mailto:mkars80%40yahoogroups.co.uk> ,
Simon McGraw <simonmcgraw@...>
> wrote:
>>
>> Hi John
>>
>> Thank you for your feedback.
>>
>> The instructions suggest a 50mA increase when the PTT is pressed,
>> the lowest
>> I can get is a 140mA increase, going higher still as I rotate R2
>> clockwise.
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>> I was wondering if the receive current was too low, and where I
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>> looking for a problem
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>>
>> Simon
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>> _____
>>
>> From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>]
>> On Behalf
>> Of John
>> Sent: 09 November 2011 15:48
>> To: mkars80@yahoogroups.co.uk <mailto:mkars80%40yahoogroups.co.uk>

>> Subject: Re: [mkars80] First Power up ?low current
>>
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>>
>>
>>
>> Sorry Simon I just saw the header "low current" forgive my
>> incompetence;-)
>>
>> Try increasing R2 slightly and look for an increase as I suggested.
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>> John.
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>> On 09/11/2011 15:45, John wrote:
>> >
>> > Hi Simon.
>> > I'm sure Steve will jump in here as soon as he reads your message
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>> > just to clarify things are you saying that with the PTT closed, no
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>> > if the microphone is connected, and R2 fully anticlockwise the
>> current
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>> > If, with the PTT closed, you turn R2 *slightly* clockwise does the
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>> seconds
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>> > I found the best way to make sure there was no external sound
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>> > On 09/11/2011 15:16, simonmcgraw@...
>> <mailto:simonmcgraw%40btinternet.com>
>> > <mailto:simonmcgraw%40btinternet.com> wrote:
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>> > > Hi, I have finally got to complete my rig and started the
>> initial
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>> > > reading is 120mA (rather than around 230mA)going to 260mA with
>> R2

>> > > fully anticlockwise on pushing the PTT.
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>> > > Thank you for your help
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>> > > Simon
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2296. Re: First Power up ?low current

Yahoo group: mkars80
Date: 2011-11-14 16:03:39 UTC
From: mmeerman
Topic: 2287 Message: 2296

Steve,

thanks for the clarification, I wouldn't have guessed that.
Yes, that is now correct. It pointed to a bad soldering point on R2 as well, so that is now fixed. After that I was able to increase the TX current from 210 to 265/270 mA, which I think is what it should be.

many thanks

Michael MoMPM

--- In mkars80@..., steve@... wrote:
>
> Hi Michael,
> I think you are getting confused with regrad the adjustment procedure.
>
> An extract from the manual:
>
> "press the PTT and note the current drawn. Adjust R2 for an increase of
> 50 Â± 5mA. For
> example, before adjustment (R2 fully anti-clockwise) the current was
> 230mA, in this example when correctly adjusted the current will be
> 275 â□" 285mA. Note as the components warm up that the current will
> rise â□" do not transmit for more than a few seconds if Q1 isnâ□□t fitted
> with a heatsink or it will overheat."
>
> So start with R2 fully anti-clockwise, press the PTT and measure the
> current - with a 11.7V supply this may only be 210mA. Whilst still
> pressing the PTT adjust R2 CAREFULLY until the current rises by 50mA.
>
> Note these measurements are taken in transmit mode with the PTT pressed
> and don't relate to recieve current.
>
> Let us know how you get on.
>
> Steve G6ALU
>
> On Mon, 14 Nov 2011 11:19:35 -0000, mmeerman wrote:
> > Hi,
> >
> > I seem to have the same issue here.
> > Just finished building the kit and reception is already great! The
> > whole of europe on a piece of wire of about 5m hanging out of the
> > window. The RX current is about 100mA, less than half what the
> > instructions suggest. Using a dummyload, I adjusted R2 to minimum

> > increase while transmitting, but cannot get it below 110mA increase,
> > with R2 fully anti-clockwise (ie. to 210mA). Tried with a
> > disconnected
> > microphone, but it makes no difference.
> > Turning R2 only makes it higher. Input voltage is 11.7V, according to
> > the digital display, and it stays like that during TX.
> > Apart from adjusting the frequency offset, and R2, I have not tuned
> > anything else yet, but on TX I can hear myself talking on a nearby
> > radio tuned to 80m SSB.
> > How critical is this initial current and increase?
> > 73's
> > Michael M0MPM
> >
> > --- In mkars80@..., Simon McGraw <simonmcgraw@>
> > wrote:
> >>
> >> Hi John
> >>
> >> Thank you for your feedback.
> >>
> >> The instructions suggest a 50mA increase when the PTT is pressed,
> >> the lowest
> >> I can get is a 140mA increase, going higher still as I rotate R2
> >> clockwise.
> >>
> >> I was wondering if the receive current was too low, and where I
> >> should go
> >> looking for a problem
> >>
> >>
> >>
> >> Simon
> >>
> >>
> >>
> >> _____
> >>
> >> From: mkars80@... [mailto:mkars80@...]
> >> On Behalf
> >> Of John
> >> Sent: 09 November 2011 15:48
> >> To: mkars80@yahoogroups.co.uk
> >> Subject: Re: [mkars80] First Power up ?low current
> >>
> >>
> >>
> >>
> >>
> >> Sorry Simon I just saw the header "low current" forgive my

> >> incompetence;-)
> >>
> >> Try increasing R2 slightly and look for an increase as I suggested.
> >>
> >> John.
> >>
> >> On 09/11/2011 15:45, John wrote:
> >> >
> >> > Hi Simon.
> >> > I'm sure Steve will jump in here as soon as he reads your message
> >> but
> >> > just to clarify things are you saying that with the PTT closed, no
> >> sound
> >> > if the microphone is connected, and R2 fully anticlockwise the
> >> current
> >> > is 260mA or 120mA?
> >> >
> >> > At 260mA it seems slightly high but in my limited opinion not too
> >> much.
> >> > If, with the PTT closed, you turn R2 *slightly* clockwise does the
> >> > current increase? Don't keep it in transmit for more than a few
> >> seconds
> >> > without a heatsink.
> >> > I found the best way to make sure there was no external sound
> >> affecting
> >> > it was to make the shorting plug as described for the PTT.
> >> >
> >> > I'm sure by the time you have clarified that Steve will be here
> >> with
> >> > plenty of ideas!
> >> >
> >> > John.
> >> >
> >> > On 09/11/2011 15:16, simonmcgraw@
> >> <mailto:simonmcgraw%40btinternet.com>
> >> > <mailto:simonmcgraw%40btinternet.com> wrote:
> >> > >
> >> > > Hi, I have finally got to complete my rig and started the
> >> initial
> >> > > test.Everything has been fine up to setting R2PA bias current.
> >> My base
> >> > > reading is 120mA (rather than around 230mA)going to 260mA with
> >> R2
> >> > > fully anticlockwise on pushing the PTT.
> >> > >
> >> > > I am unsure where to look next and would appreciate any advice.
> >> > >
> >> > > Thank you for your help
> >> > >

> >> > > Simon
> >> > >
> >> > >
> >> >
> >> > [Non-text portions of this message have been removed]
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> >>
> >> [Non-text portions of this message have been removed]
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> >> [Non-text portions of this message have been removed]
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2297. R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-18 17:29:46 UTC
From: Greg McGann
Topic: 2297 Message: 2297

I'm experiencing unusual effects which are being caused by the PA bias adjustment. I set the thing up like the manual describes:
i.e. press ptt and measure current drawn with r2 fully anticlockwise, then turn r2 until I get 50mA more with ptt still depressed.
Trouble is, it seems ok when I first set it but then get an intermittent fault where I get feedback on transmit...
(ptt is pressed and about 1 watt of rf is measured on the meter with no sound on the mic)

The trouble clears up when I back off r2 a bit again, but then the setting is incorrect as per the instructions... Does this matter?

I've been using the rig to make a few contacts, ssb is very difficult as expected. Thought I might try psk31 and had good success making a few QSOs. I kept the transmit drive level to just under 2 watts, but the board still got a bit warm.

Oh well, any thoughts would be appreciated.

Cheers
Greg

2298. Re: [mkars80] R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-18 17:57:19 UTC
From: Steve Drury
Topic: 2297 Message: 2298

Greg,
Have you set up the BFO frequency? Its best to set up with a frequency counter to get it accurate but careful adjustment for the correct display frequency is also acceptable; adjusting for best received audio doesn't work.

Some questions to help diagnose further:

1. Is the VSWR reasonable? Certainly less than 3:1 is OK.
2. Is the microphone lead screened? With poor VSWR and a poorly screened microphone lead instability can be expected.
3. Is the kit fitted to a standard case?

Its best to keep the bias as recommended to have reasonable linearity.

Please answer the questions and I will try to help further.

Regards,
Steve G6ALU

On 18/11/2011 17:29, Greg McGann wrote:
> I'm experiencing unusual effects which are being caused by the PA bias adjustment. I set the thing up like the manual describes:
> i.e. press ptt and measure current drawn with r2 fully anticlockwise, then turn r2 until I get 50mA more with ptt still depressed.
> Trouble is, it seems ok when I first set it but then get an intermittent fault where I get feedback on transmit...
> (ptt is pressed and about 1 watt of rf is measured on the meter with no sound on the mic)
>
> The trouble clears up when I back off r2 a bit again, but then the setting is incorrect as per the instructions... Does this matter?
>
> I've been using the rig to make a few contacts, ssb is very difficult as expected. Thought I might try psk31 and had good success making a few QSOs. I kept the transmit drive level to just under 2 watts, but the board still got a bit warm.
>
> Oh well, any thoughts would be appreciated.
>
> Cheers
> Greg
>
>
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> Yahoo! Groups Links

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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1872 / Virus Database: 2092/4624 - Release Date: 11/18/11
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>

[Non-text portions of this message have been removed]

2299. Re: R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-19 00:04:00 UTC
From: Greg McGann
Topic: 2297 Message: 2299

Hi Steve,
Thanks for the quick reply, I think it's probably the BFO setup. I had a go at what I thought the manual described but I must've botched it.
SWR is fine and rig is in standard case supplied.
I haven't got a frequency counter so I was having a go at the other method. I'm not sure I'm doing it right though. (I have no other radio which covers 80m either)

If all else fails, I'll have to get a frequency counter...
How would you adjust for correct display frequency?

Any suggestions?
Cheap frequency counters for sale anywhere?

Greg

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Greg,
> Have you set up the BFO frequency? Its best to set up with a frequency
> counter to get it accurate but careful adjustment for the correct
> display frequency is also acceptable; adjusting for best received audio
> doesn't work.
>
> Some questions to help diagnose further:
>
> 1. Is the VSWR reasonable? Certainly less than 3:1 is OK.
> 2. Is the microphone lead screened? With poor VSWR and a poorly
> screened microphone lead instability can be expected.
> 3. Is the kit fitted to a standard case?
>
> Its best to keep the bias as recommended to have reasonable linearity.
>
> Please answer the questions and I will try to help further.
>
> Regards,
> Steve G6ALU
>
> On 18/11/2011 17:29, Greg McGann wrote:
> > I'm experiencing unusual effects which are being caused by the PA bias adjustment. I set the thing up like the manual describes:
> > i.e. press ptt and measure current drawn with r2 fully anticlockwise, then turn r2 until I get 50mA more with ptt still depressed.
> > Trouble is, it seems ok when I first set it but then get an intermittent fault where I get feedback on transmit...
> > (ptt is pressed and about 1 watt of rf is measured on the meter with no sound on the mic)

> >
> > The trouble clears up when I back off r2 a bit again, but then the setting is incorrect as per the instructions... Does this matter?
> >
> > I've been using the rig to make a few contacts, ssb is very difficult as expected. Thought I might try psk31 and had good success making a few QSOs. I kept the transmit drive level to just under 2 watts, but the board still got a bit warm.
> >
> > Oh well, any thoughts would be appreciated.
> >
> > Cheers
> > Greg
> >
> >
> >
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1872 / Virus Database: 2092/4624 - Release Date: 11/18/11
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>
> [Non-text portions of this message have been removed]
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2300. RE: [mkars80] Re: R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-24 11:20:45 UTC
From: Andrew Lenton
Topic: 2297 Message: 2300

Hi Greg,

Where do you live I have a frequency counter and spectrum analyser, so could help if you are not too far away.

BR

Andrew G8UUG

From: mkars80@... [mailto:mkars80@...] On Behalf Of Greg McGann
Sent: 19 November 2011 00:04
To: mkars80@...
Subject: [mkars80] Re: R2 PA bias current setting and feedback

Hi Steve,
Thanks for the quick reply, I think it's probably the BFO setup. I had a go at what I thought the manual described but I must've botched it.
SWR is fine and rig is in standard case supplied.
I haven't got a frequency counter so I was having a go at the other method. I'm not sure I'm doing it right though. (I have no other radio which covers 80m either)

If all else fails, I'll have to get a frequency counter...
How would you adjust for correct display frequency?

Any suggestions?
Cheap frequency counters for sale anywhere?

Greg

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> , Steve Drury <steve@...> wrote:
>
> Greg,
> Have you set up the BFO frequency? Its best to set up with a frequency
> counter to get it accurate but careful adjustment for the correct
> display frequency is also acceptable; adjusting for best received audio
> doesn't work.
>
> Some questions to help diagnose further:
>
> 1. Is the VSWR reasonable? Certainly less than 3:1 is OK.
> 2. Is the microphone lead screened? With poor VSWR and a poorly
> screened microphone lead instability can be expected.
> 3. Is the kit fitted to a standard case?
>

> Its best to keep the bias as recommended to have reasonable linearity.
>
> Please answer the questions and I will try to help further.
>
> Regards,
> Steve G6ALU
>
> On 18/11/2011 17:29, Greg McGann wrote:
> > I'm experiencing unusual effects which are being caused by the PA bias adjustment. I set the thing up like the manual describes:
> > i.e. press ptt and measure current drawn with r2 fully anticlockwise, then turn r2 until I get 50mA more with ptt still depressed.
> > Trouble is, it seems ok when I first set it but then get an intermittent fault where I get feedback on transmit...
> > (ptt is pressed and about 1 watt of rf is measured on the meter with no sound on the mic)
> >
> > The trouble clears up when I back off r2 a bit again, but then the setting is incorrect as per the instructions... Does this matter?
> >
> > I've been using the rig to make a few contacts, ssb is very difficult as expected. Thought I might try psk31 and had good success making a few QSOs. I kept the transmit drive level to just under 2 watts, but the board still got a bit warm.
> >
> > Oh well, any thoughts would be appreciated.
> >
> > Cheers
> > Greg
> >
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1872 / Virus Database: 2092/4624 - Release Date: 11/18/11
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>
> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

2301. Re: R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-26 23:42:22 UTC
From: Greg McGann
Topic: 2297 Message: 2301

Hello Andrew,

Live in Edinburgh, I think it may be too far judging from your callsign... thanks anyway though. I used an online receiver to hear myself on air and made some adjustments, this seems to have done the trick. I also found a few stations on known frequencies and tried using the other method it described.
Results have been very good! I've got a 58 and a 59 from 2 stations in Belgium. One was even QRP to QRP so I'm especially chuffed! Using a full half wavelength wire up about 6 or 7 metres. I've had 60 quid's worth of fun already!
The problem has cleared up since Steve told me to check the bfo again.

Greg

--- In mkars80@..., "Andrew Lenton" <a@...> wrote:
>
> Hi Greg,
>
>
>
> Where do you live I have a frequency counter and spectrum analyser, so could
> help if you are not too far away.
>
>
>
> BR
>
>
>
> Andrew G8UUG
>
>
>
> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
> Of Greg McGann
> Sent: 19 November 2011 00:04
> To: mkars80@...
> Subject: [mkars80] Re: R2 PA bias current setting and feedback
>
>
>
>
>
>
> Hi Steve,
> Thanks for the quick reply, I think it's probably the BFO setup. I had a go
> at what I thought the manual described but I must've botched it.
> SWR is fine and rig is in standard case supplied.

> I haven't got a frequency counter so I was having a go at the other method.
> I'm not sure I'm doing it right though. (I have no other radio which covers
> 80m either)
>
> If all else fails, I'll have to get a frequency counter...
> How would you adjust for correct display frequency?
>
> Any suggestions?
> Cheap frequency counters for sale anywhere?
>
> Greg
>
> --- In mkars80@yahoogroups.co.uk <mailto:mkars80%40yahoogroups.co.uk> ,
> Steve Drury <steve@> wrote:
> >
> > Greg,
> > Have you set up the BFO frequency? Its best to set up with a frequency
> > counter to get it accurate but careful adjustment for the correct
> > display frequency is also acceptable; adjusting for best received audio
> > doesn't work.
> >
> > Some questions to help diagnose further:
> >
> > 1. Is the VSWR reasonable? Certainly less than 3:1 is OK.
> > 2. Is the microphone lead screened? With poor VSWR and a poorly
> > screened microphone lead instability can be expected.
> > 3. Is the kit fitted to a standard case?
> >
> > Its best to keep the bias as recommended to have reasonable linearity.
> >
> > Please answer the questions and I will try to help further.
> >
> > Regards,
> > Steve G6ALU
> >
> > On 18/11/2011 17:29, Greg McGann wrote:
> > > I'm experiencing unusual effects which are being caused by the PA bias
> adjustment. I set the thing up like the manual describes:
> > > i.e. press ptt and measure current drawn with r2 fully anticlockwise,
> then turn r2 until I get 50mA more with ptt still depressed.
> > > Trouble is, it seems ok when I first set it but then get an intermittent
> fault where I get feedback on transmit...
> > > (ptt is pressed and about 1 watt of rf is measured on the meter with no
> sound on the mic)
> > >
> > > The trouble clears up when I back off r2 a bit again, but then the
> setting is incorrect as per the instructions... Does this matter?
> > >
> > > I've been using the rig to make a few contacts, ssb is very difficult as
> expected. Thought I might try psk31 and had good success making a few QSOs.

> I kept the transmit drive level to just under 2 watts, but the board still
> got a bit warm.
> > >
> > > Oh well, any thoughts would be appreciated.
> > >
> > > Cheers
> > > Greg
> > >
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> > > Yahoo! Groups Links
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> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1872 / Virus Database: 2092/4624 - Release Date:
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> [Non-text portions of this message have been removed]
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2302. Re: [mkars80] Re: R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-27 08:46:55 UTC
From: Steve Drury
Topic: 2297 Message: 2302

Greg,

As another project you could build this:
http://www.radio-kits.co.uk/LCD_Demo/ I don't do a programmed PIC any
more but can sell you a low cost display if interested. You would need
to make / buy a PIC programmer.

Steve G6ALU

On 26/11/2011 23:42, Greg McGann wrote:
> Hello Andrew,
>
> Live in Edinburgh, I think it may be too far judging from your callsign... thanks anyway though. I used an online receiver to hear myself on air and made some adjustments, this seems to have done the trick. I also found a few stations on known frequencies and tried using the other method it described.
> Results have been very good! I've got a 58 and a 59 from 2 stations in Belgium. One was even QRP to QRP so I'm especially chuffed! Using a full half wavelength wire up about 6 or 7 metres. I've had 60 quid's worth of fun already!
> The problem has cleared up since Steve told me to check the bfo again.
>
> Greg
>
> --- In mkars80@..., "Andrew Lenton"<a@...> wrote:
>> Hi Greg,
>>
>>
>>
>> Where do you live I have a frequency counter and spectrum analyser, so could
>> help if you are not too far away.
>>
>>
>>
>> BR
>>
>>
>>
>> Andrew G8UUG
>>
>>
>>
>> From: mkars80@... [mailto:mkars80@...] On Behalf
>> Of Greg McGann
>> Sent: 19 November 2011 00:04
>> To: mkars80@...
>> Subject: [mkars80] Re: R2 PA bias current setting and feedback

>>
>>
>>
>>
>>
>> Hi Steve,
>> Thanks for the quick reply, I think it's probably the BFO setup. I had a go
>> at what I thought the manual described but I must've botched it.
>> SWR is fine and rig is in standard case supplied.
>> I haven't got a frequency counter so I was having a go at the other method.
>> I'm not sure I'm doing it right though. (I have no other radio which covers
>> 80m either)
>>
>> If all else fails, I'll have to get a frequency counter...
>> How would you adjust for correct display frequency?
>>
>> Any suggestions?
>> Cheap frequency counters for sale anywhere?
>>
>> Greg
>>
>> --- In mkars80@...<mailto:mkars80%40yahoogroups.co.uk> ,
>> Steve Drury<steve@> wrote:
>>> Greg,
>>> Have you set up the BFO frequency? Its best to set up with a frequency
>>> counter to get it accurate but careful adjustment for the correct
>>> display frequency is also acceptable; adjusting for best received audio
>>> doesn't work.
>>>
>>> Some questions to help diagnose further:
>>>
>>> 1. Is the VSWR reasonable? Certainly less than 3:1 is OK.
>>> 2. Is the microphone lead screened? With poor VSWR and a poorly
>>> screened microphone lead instability can be expected.
>>> 3. Is the kit fitted to a standard case?
>>>
>>> Its best to keep the bias as recommended to have reasonable linearity.
>>>
>>> Please answer the questions and I will try to help further.
>>>
>>> Regards,
>>> Steve G6ALU
>>>
>>> On 18/11/2011 17:29, Greg McGann wrote:
>>>> I'm experiencing unusual effects which are being caused by the PA bias
>> adjustment. I set the thing up like the manual describes:
>>>> i.e. press ptt and measure current drawn with r2 fully anticlockwise,
>> then turn r2 until I get 50mA more with ptt still depressed.
>>>> Trouble is, it seems ok when I first set it but then get an intermittent
>> fault where I get feedback on transmit...

>>>> (ptt is pressed and about 1 watt of rf is measured on the meter with no
>> sound on the mic)
>>>> The trouble clears up when I back off r2 a bit again, but then the
>> setting is incorrect as per the instructions... Does this matter?
>>>> I've been using the rig to make a few contacts, ssb is very difficult as
>> expected. Thought I might try psk31 and had good success making a few QSOs.
>> I kept the transmit drive level to just under 2 watts, but the board still
>> got a bit warm.
>>>> Oh well, any thoughts would be appreciated.
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>>>> Cheers
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>>>> Yahoo! Groups Links
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>>>> -----
>>>> No virus found in this message.
>>>> Checked by AVG - www.avg.com
>>>> Version: 2012.0.1872 / Virus Database: 2092/4624 - Release Date:
>> 11/18/11
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>>> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1873 / Virus Database: 2101/4641 - Release Date: 11/26/11
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2303. Re: [mkars80] Re: R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-27 10:49:39 UTC
From: John
Topic: 2297 Message: 2303

Hi.
If you are interested in Steve's offer Greg I could program the PIC for
you if you don't have the facilities.
I don't have any of that type but they are available quite easily.

Regards,
John.

On 27/11/2011 08:46, Steve Drury wrote:
>
> Greg,
>
> As another project you could build this:
> http://www.radio-kits.co.uk/LCD_Demo/ I don't do a programmed PIC any
> more but can sell you a low cost display if interested. You would need
> to make / buy a PIC programmer.
>
> Steve G6ALU
>
> On 26/11/2011 23:42, Greg McGann wrote:
> > Hello Andrew,
> >
> > Live in Edinburgh, I think it may be too far judging from your
> callsign... thanks anyway though. I used an online receiver to hear
> myself on air and made some adjustments, this seems to have done the
> trick. I also found a few stations on known frequencies and tried
> using the other method it described.
> > Results have been very good! I've got a 58 and a 59 from 2 stations
> in Belgium. One was even QRP to QRP so I'm especially chuffed! Using a
> full half wavelength wire up about 6 or 7 metres. I've had 60 quid's
> worth of fun already!
> > The problem has cleared up since Steve told me to check the bfo again.
> >
> > Greg
> >
> > --- In mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>, "Andrew Lenton"<a@...> wrote:
> >> Hi Greg,
> >>
> >>
> >>
> >> Where do you live I have a frequency counter and spectrum analyser,
> so could
> >> help if you are not too far away.
> >>

> >>
> >>
> >> BR
> >>
> >>
> >>
> >> Andrew G8UUG
> >>
> >>
> >>
> >> From: mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk> [mailto:mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>] On Behalf
> >> Of Greg McGann
> >> Sent: 19 November 2011 00:04
> >> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> >> Subject: [mkars80] Re: R2 PA bias current setting and feedback
> >>
> >>
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> >>
> >>
> >> Hi Steve,
> >> Thanks for the quick reply, I think it's probably the BFO setup. I
> had a go
> >> at what I thought the manual described but I must've botched it.
> >> SWR is fine and rig is in standard case supplied.
> >> I haven't got a frequency counter so I was having a go at the other
> method.
> >> I'm not sure I'm doing it right though. (I have no other radio
> which covers
> >> 80m either)
> >>
> >> If all else fails, I'll have to get a frequency counter...
> >> How would you adjust for correct display frequency?
> >>
> >> Any suggestions?
> >> Cheap frequency counters for sale anywhere?
> >>
> >> Greg
> >>
> >> --- In mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co.uk> ,
> >> Steve Drury<steve@> wrote:
> >>> Greg,
> >>> Have you set up the BFO frequency? Its best to set up with a frequency
> >>> counter to get it accurate but careful adjustment for the correct
> >>> display frequency is also acceptable; adjusting for best received
> audio
> >>> doesn't work.

> >>>
> >>> Some questions to help diagnose further:
> >>>
> >>> 1. Is the VSWR reasonable? Certainly less than 3:1 is OK.
> >>> 2. Is the microphone lead screened? With poor VSWR and a poorly
> >>> screened microphone lead instability can be expected.
> >>> 3. Is the kit fitted to a standard case?
> >>>
> >>> Its best to keep the bias as recommended to have reasonable linearity.
> >>>
> >>> Please answer the questions and I will try to help further.
> >>>
> >>> Regards,
> >>> Steve G6ALU
> >>>
> >>> On 18/11/2011 17:29, Greg McGann wrote:
> >>>> I'm experiencing unusual effects which are being caused by the PA
> bias
> >> adjustment. I set the thing up like the manual describes:
> >>>> i.e. press ptt and measure current drawn with r2 fully anticlockwise,
> >> then turn r2 until I get 50mA more with ptt still depressed.
> >>>> Trouble is, it seems ok when I first set it but then get an
> intermittent
> >> fault where I get feedback on transmit...
> >>>> (ptt is pressed and about 1 watt of rf is measured on the meter
> with no
> >> sound on the mic)
> >>>> The trouble clears up when I back off r2 a bit again, but then the
> >> setting is incorrect as per the instructions... Does this matter?
> >>>> I've been using the rig to make a few contacts, ssb is very
> difficult as
> >> expected. Thought I might try psk31 and had good success making a
> few QSOs.
> >> I kept the transmit drive level to just under 2 watts, but the
> board still
> >> got a bit warm.
> >>>> Oh well, any thoughts would be appreciated.
> >>>>
> >>>> Cheers
> >>>> Greg
> >>>>
> >>>>
> >>>>
> >>>> ------------------------------------
> >>>>
> >>>> Yahoo! Groups Links
> >>>>
> >>>>
> >>>>
> >>>>

> >>>>
> >>>> -----
> >>>> No virus found in this message.
> >>>> Checked by AVG - www.avg.com
> >>>> Version: 2012.0.1872 / Virus Database: 2092/4624 - Release Date:
> >> 11/18/11
> >>>>
> >>>
> >>> [Non-text portions of this message have been removed]
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> >> [Non-text portions of this message have been removed]
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> >
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> >
> > Yahoo! Groups Links
> >
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> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1873 / Virus Database: 2101/4641 - Release Date:
> 11/26/11
> >
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>

[Non-text portions of this message have been removed]

2304. Re: R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-27 18:53:40 UTC
From: Greg McGann
Topic: 2297 Message: 2304

I've asked Santa for a posh new multimeter that does some incredible stuff, does inductance, capacitance, it's a frequency counter too! Thanks for the recommendations and kind offers though.

Greg

--- In mkars80@yahoogroups.co.uk, John <john@...> wrote:
>
> Hi.
> If you are interested in Steve's offer Greg I could program the PIC for
> you if you don't have the facilities.
> I don't have any of that type but they are available quite easily.
>
> Regards,
> John.
>
> On 27/11/2011 08:46, Steve Drury wrote:
> >
> > Greg,
> >
> > As another project you could build this:
> > http://www.radio-kits.co.uk/LCD_Demo/ I don't do a programmed PIC any
> > more but can sell you a low cost display if interested. You would need
> > to make / buy a PIC programmer.
> >
> > Steve G6ALU
> >
> > On 26/11/2011 23:42, Greg McGann wrote:
> > > Hello Andrew,
> > >
> > > Live in Edinburgh, I think it may be too far judging from your
> > callsign... thanks anyway though. I used an online receiver to hear
> > myself on air and made some adjustments, this seems to have done the
> > trick. I also found a few stations on known frequencies and tried
> > using the other method it described.
> > > Results have been very good! I've got a 58 and a 59 from 2 stations
> > in Belgium. One was even QRP to QRP so I'm especially chuffed! Using a
> > full half wavelength wire up about 6 or 7 metres. I've had 60 quid's
> > worth of fun already!
> > > The problem has cleared up since Steve told me to check the bfo again.
> > >
> > > Greg
> > >
> > > --- In mkars80@...
> > <mailto:mkars80%40yahoogroups.co.uk>, "Andrew Lenton"<a@...> wrote:

> > >> Hi Greg,
> > >>
> > >>
> > >>
> > >> Where do you live I have a frequency counter and spectrum analyser,
> > so could
> > >> help if you are not too far away.
> > >>
> > >>
> > >>
> > >> BR
> > >>
> > >>
> > >>
> > >> Andrew G8UUG
> > >>
> > >>
> > >>
> > >> From: mkars80@...
> > <mailto:mkars80%40yahoogroups.co.uk> [mailto:mkars80@...
> > <mailto:mkars80%40yahoogroups.co.uk>] On Behalf
> > >> Of Greg McGann
> > >> Sent: 19 November 2011 00:04
> > >> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> > >> Subject: [mkars80] Re: R2 PA bias current setting and feedback
> > >>
> > >>
> > >>
> > >>
> > >>
> > >> Hi Steve,
> > >> Thanks for the quick reply, I think it's probably the BFO setup. I
> > had a go
> > >> at what I thought the manual described but I must've botched it.
> > >> SWR is fine and rig is in standard case supplied.
> > >> I haven't got a frequency counter so I was having a go at the other
> > method.
> > >> I'm not sure I'm doing it right though. (I have no other radio
> > which covers
> > >> 80m either)
> > >>
> > >> If all else fails, I'll have to get a frequency counter...
> > >> How would you adjust for correct display frequency?
> > >>
> > >> Any suggestions?
> > >> Cheap frequency counters for sale anywhere?
> > >>
> > >> Greg
> > >>
> > >> --- In mkars80@...

> > <mailto:mkars80%40yahoogroups.co.uk><mailto:mkars80%40yahoogroups.co.uk> ,
> > >> Steve Drury<steve@> wrote:
> > >>> Greg,
> > >>> Have you set up the BFO frequency? Its best to set up with a frequency
> > >>> counter to get it accurate but careful adjustment for the correct
> > >>> display frequency is also acceptable; adjusting for best received
> > audio
> > >>> doesn't work.
> > >>>
> > >>> Some questions to help diagnose further:
> > >>>
> > >>> 1. Is the VSWR reasonable? Certainly less than 3:1 is OK.
> > >>> 2. Is the microphone lead screened? With poor VSWR and a poorly
> > >>> screened microphone lead instability can be expected.
> > >>> 3. Is the kit fitted to a standard case?
> > >>>
> > >>> Its best to keep the bias as recommended to have reasonable linearity.
> > >>>
> > >>> Please answer the questions and I will try to help further.
> > >>>
> > >>> Regards,
> > >>> Steve G6ALU
> > >>>
> > >>> On 18/11/2011 17:29, Greg McGann wrote:
> > >>>> I'm experiencing unusual effects which are being caused by the PA
> > bias
> > >> adjustment. I set the thing up like the manual describes:
> > >>>> i.e. press ptt and measure current drawn with r2 fully anticlockwise,
> > >> then turn r2 until I get 50mA more with ptt still depressed.
> > >>>> Trouble is, it seems ok when I first set it but then get an
> > intermittent
> > >> fault where I get feedback on transmit...
> > >>>> (ptt is pressed and about 1 watt of rf is measured on the meter
> > with no
> > >> sound on the mic)
> > >>>> The trouble clears up when I back off r2 a bit again, but then the
> > >> setting is incorrect as per the instructions... Does this matter?
> > >>>> I've been using the rig to make a few contacts, ssb is very
> > difficult as
> > >> expected. Thought I might try psk31 and had good success making a
> > few QSOs.
> > >> I kept the transmit drive level to just under 2 watts, but the
> > board still
> > >> got a bit warm.
> > >>>> Oh well, any thoughts would be appreciated.
> > >>>>
> > >>>> Cheers
> > >>>> Greg
> > >>>>
> > >>>>

> > >>>>
> > >>>> ------------------------------------
> > >>>>
> > >>>> Yahoo! Groups Links
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> > >>>> -----
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> > >>>> Version: 2012.0.1872 / Virus Database: 2092/4624 - Release Date:
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> > >>> [Non-text portions of this message have been removed]
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> > >> [Non-text portions of this message have been removed]
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> > >
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> > >
> > > Yahoo! Groups Links
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> > >
> > >
> > >
> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1873 / Virus Database: 2101/4641 - Release Date:
> > 11/26/11
> > >
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>
>
> [Non-text portions of this message have been removed]
>

2305. Re: [mkars80] Re: R2 PA bias current setting and feedback

Yahoo group: mkars80
Date: 2011-11-27 18:56:30 UTC
From: Steve Drury
Topic: 2297 Message: 2305

I'm glad you're having fun with it Greg, you can imagine the pleasure
when I got the first prototype working!

Steve G6ALU

On 27/11/2011 18:53, Greg McGann wrote:
> I've asked Santa for a posh new multimeter that does some incredible stuff, does inductance, capacitance, it's a frequency counter too! Thanks for the recommendations and kind offers though.
>
> Greg
>
> --- In mkars80@..., John<john@...> wrote:
>> Hi.
>> If you are interested in Steve's offer Greg I could program the PIC for
>> you if you don't have the facilities.
>> I don't have any of that type but they are available quite easily.
>>
>> Regards,
>> John.
>>
>> On 27/11/2011 08:46, Steve Drury wrote:
>>> Greg,
>>>
>>> As another project you could build this:
>>> http://www.radio-kits.co.uk/LCD_Demo/ I don't do a programmed PIC any
>>> more but can sell you a low cost display if interested. You would need
>>> to make / buy a PIC programmer.
>>>
>>> Steve G6ALU
>>>
>>>
>>>

2306. !

Yahoo group: mkars80
Date: 2011-12-02 09:45:19 UTC
From: g3zdr
Topic: 2306 Message: 2306

I have my rig working nicely, however when placing the display on the front of my large box with ribbon cable a broke a single cable loose when it was operating. I reconnected but now the voltmeter reads 7.3 Volts with 13.8 Volts connected.

Have I 'blown up' the IC voltmeter? any ideas gratefully received

2307. Re: [mkars80] !

Yahoo group: mkars80
Date: 2011-12-02 13:49:56 UTC
From: Steve Drury
Topic: 2306 Message: 2307

Hello Paul,

The display doesn't measure the voltage, that's the job of the PIC.

Check the values of R23 and R21, if they are correct check the voltage
at Pin 17 of the micro, it should be about 3.7V. If the reading is
correct I can send you a new micro.

Regards,
Steve G6ALU

On 02/12/2011 09:45, g3zdr wrote:
> I have my rig working nicely, however when placing the display on the front of my large box with ribbon cable a broke a single cable loose when it was operating. I reconnected but now the voltmeter reads 7.3 Volts with 13.8 Volts connected.
>
> Have I 'blown up' the IC voltmeter? any ideas gratefully received
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1873 / Virus Database: 2102/4650 - Release Date: 12/01/11
>
>

2309. Re: [mkars80] hey

Yahoo group: mkars80
Date: 2011-12-03 22:03:00 UTC
From: Steve Drury
Topic: 2309 Message: 2309

Please don't click on anything in the last email... looks like David has a virus on his machine.

I have deleted it of the server and will moderate all his messages until we know his machine is clean.

Steve G6ALU - Group owner

2310. Handicapped Ham need Help with Varicap Tuning Mod

Yahoo group: mkars80
Date: 2011-12-16 21:15:41 UTC
From: ad6ka
Topic: 2310 Message: 2310

I unfortunately suffered a mild/moderate stroke in late March
which makes soldering very difficult. There are some things
I can do and things I cannot do. I am more than willing to
pay an MKARS Group member good money to perform the ten turn
pot varicap tuning mod. No enclosure work required.
I reside on the West Coast of the US but am willing to ship
to/from the UK.

Of course I will supply all the parts and pay shipping both ways. If someone is willing to take on this job I would be
eternally grateful.
I don't **necesarily** need the "Four Band Section Mod"
as this seems fairly complicated.
Whatever your ability allows you to accomplish is fine with me.

You needn't concern yourself with stuffing the completed unit into an enclosure. I have a retied machinist neighbor with a small machine shop in his garage who is willing to dril, cut and tap any enclosure for me. The the stock enclosure will not fit and besides I would prefer a larger enclosure for my shakey hands.

Perhaps whoever wires the mod could make the leads to the pot and
and band switch (IF INCLUDED) included) maybe 3-4 inches long and
my friend and I could trim to fit the alternate enclosure on final assembly.

Thank you so much for your considering this,
and I wish all a safe and healthy Holiday Season.
TNX ES VY 73, Kenneth Pendarvis AD6KA ex 5R8GQ
kenp@...

2311. Re: Handicapped Ham need Help with Varicap Tuning Mod

Yahoo group: mkars80
Date: 2011-12-18 15:53:14 UTC
From: sv3auw
Topic: 2310 Message: 2311

Hi Ken!
I can do it for you.
I have alread built 4 "regular" MKARS80 and Steve knows me in person.
It will cost you no more than the cost of the components and a rig round trip to London UK!
I am not going to charge you for the labour. It is a matter of principle.
Just leave a message if you don't have a better P&P deal. It is costly to sent staff to UK and EU in general.
With regards
Panagiotis
SV3AUW/M0LPT

--- In mkars80@..., "ad6ka" <kenp@...> wrote:
>
> I unfortunately suffered a mild/moderate stroke in late March
> which makes soldering very difficult. There are some things
> I can do and things I cannot do. I am more than willing to
> pay an MKARS Group member good money to perform the ten turn
> pot varicap tuning mod. No enclosure work required.
> I reside on the West Coast of the US but am willing to ship
> to/from the UK.
>
> Of course I will supply all the parts and pay shipping both ways. If someone is willing to take on this job I would be
> eternally grateful.
> I don't **necesarily** need the "Four Band Section Mod"
> as this seems fairly complicated.
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> You needn't concern yourself with stuffing the completed unit into an enclosure. I have a retied machinist neighbor with a small machine shop in his garage who is willing to dril, cut and tap any enclosure for me. The the stock enclosure will not fit and besides I would prefer a larger enclosure for my shakey hands.
>
> Perhaps whoever wires the mod could make the leads to the pot and
> and band switch (IF INCLUDED) included) maybe 3-4 inches long and
> my friend and I could trim to fit the alternate enclosure on final assembly.
>
> Thank you so much for your considering this,
> and I wish all a safe and healthy Holiday Season.
> TNX ES VY 73, Kenneth Pendarvis AD6KA ex 5R8GQ
> kenp@...
>

2312. Re: [mkars80] Re: Handicapped Ham need Help with Varicap Tuning Mod

Yahoo group: mkars80
Date: 2011-12-18 16:51:59 UTC
From: Ken Pendarvis
Topic: 2310 Message: 2312

Dear Panagiotis:

Thank you SO MUCH for your offer to build
this MKARS mod for me. This is in the true ham spirit
and I appreciate more than words can tell. I used to be
pretty good with soldering iron before my stroke and since then it
has been extremely frustrating not being able to do the simplest of tasks.

One question I have:
There are 2 or 3 different MKARS varicap tuning mods posted
on the Net. Which one are you planning to do, so I know which
parts to ship? I really only need the "simple mod" (No 'band segment
switches') and besides, that will make it simpler for you.
I am thinking that the "simple" (No switches) mod from the PA0RCL
Web Site (see attached file) would work well and be the least amount
of work for you. But whatever mod you feel most comfortable doing, please
let me know so I can get all the parts, OK? The MVAM109 Varicap is not
available in the USA, so I will have to substitute the NTE 618. I have read
that this will work but am not sure. All of the other parts are of course
standard parts, and I have read one should use shielded wire (center
conductor
of RG-174 or RG-316) for the lead to the ten turn pot. I have some of this
I can send.

Panagiotis, my machinist neighbor is going to help me mount the MKARS
into a larger enclosure. So I need the tuning pot to have a little extra
wire,
say 12cm or so. Will this negatively effect the tuning of the MKARS? If it
wont
work I will not do it. would "Remoting" (MOUNTING OFF OF THE pc BOARD)
the GAIN and RIT controls have a negative effect on rig performance?
(Don't worry, my friend would do this work for me, I would just ask
you to please make longer wires to controls if possible. If not
possible,forget
it I do not want to take advantage of your generosity my friend!!)

Is your address good at QRZ.com under SV3AUW?
What is the best way to ship the unit and parts to you?
Post? Registered Post? DHL?(VERY Expensive) I am thinking
Registered Post would be good.
A problem is that I do not have a Pay Pal account, so how
would I pay you return postage? And how much would I know
how much it costs from your QTH? Could you send me an email with
the Registered Post Return Charges and I could send you cash via registered
post, maybe hidden in a book or magazine? Let me know what you think.

By the way, I have an unbuilt MKARS CW Adaptor Kit sitting here and
I have no use for it now. I would like to include it as a gift for you for
doing this very kind modification for me. If you already have one, you can
sell it
and use the money to buy something else, hihi.

OH, I also attached a WORD file of the parts I think I need to send you
for this mod. Please make any changes you thinkneeded nd I will get the
parts ASAP.

Thanks again for your generosity in the true
spirit of ham radio.
73, Ken, AD6KA, ex 5R8GQ

From: sv3auw
Sent: Sunday, December 18, 2011 7:53 AM
To: mkars80@...
Subject: [mkars80] Re: Handicapped Ham need Help with Varicap Tuning Mod

Hi Ken!
I can do it for you.
I have alread built 4 "regular" MKARS80 and Steve knows me in person.
It will cost you no more than the cost of the components and a rig round trip to London UK!
I am not going to charge you for the labour. It is a matter of principle.
Just leave a message if you don't have a better P&P deal. It is costly to sent staff to UK
and EU in general.
With regards
Panagiotis
SV3AUW/M0LPT

--- In mailto:mkars80%40yahoogroups.co.uk, "ad6ka" <kenp@...> wrote:
>
> I unfortunately suffered a mild/moderate stroke in late March
> which makes soldering very difficult. There are some things
> I can do and things I cannot do. I am more than willing to
> pay an MKARS Group member good money to perform the ten turn
> pot varicap tuning mod. No enclosure work required.
> I reside on the West Coast of the US but am willing to ship
> to/from the UK.
>
> Of course I will supply all the parts and pay shipping both ways. If someone is willing
to take on this job I would be
> eternally grateful.
> I don't **necesarily** need the "Four Band Section Mod"
> as this seems fairly complicated.
> Whatever your ability allows you to accomplish is fine with me.
>
> You needn't concern yourself with stuffing the completed unit into an enclosure. I have a
retied machinist neighbor with a small machine shop in his garage who is willing to dril,
cut and tap any enclosure for me. The the stock enclosure will not fit and besides I would
prefer a larger enclosure for my shakey hands.
>

> Perhaps whoever wires the mod could make the leads to the pot and
> and band switch (IF INCLUDED) included) maybe 3-4 inches long and
> my friend and I could trim to fit the alternate enclosure on final assembly.
>
> Thank you so much for your considering this,
> and I wish all a safe and healthy Holiday Season.
> TNX ES VY 73, Kenneth Pendarvis AD6KA ex 5R8GQ
> kenp@...
>

[Non-text portions of this message have been removed]

2313. Youtube link

Yahoo group: mkars80
Date: 2011-12-18 21:09:48 UTC
From: hamlab3
Topic: 2313 Message: 2313

I thought group members might like to see the following youtube video from Chris 2E0CTH.

http://www.youtube.com/watch?v=4Z3JJzJTetg&feature=youtu.be&mid=55844

Steve G6ALU

2314. Varactor mod. question

Yahoo group: mkars80
Date: 2011-12-19 23:14:31 UTC
From: Ken
Topic: 2314 Message: 2314

Does the use of a 10 turn pot. eliminate the need of the switched resistor matrix in the varactor modification?

Thanks

2315. Re: Varactor mod. question

Yahoo group: mkars80
Date: 2011-12-20 00:23:22 UTC
From: K.Greenough
Topic: 2314 Message: 2315

Hello Ken,
A ten turn pot should give better bandspread than the variable capacitor in the kit but it will be very non linear bandspread. Personally I find the Cap' supplied adequate but anyone doing the varicap mod' might be interested in a circuit that gives near enough linear tuning with a varicap. It was published in Sprat, the magazine of the GQRP club. Issue 133, winter 2007/8 . The article was written by Bob, K3NHI, and titled " Linearization of a varactor tuned VFO".
73 Ken g8beq

[Non-text portions of this message have been removed]

2316. Re: [mkars80] Re: Varactor mod. question

Yahoo group: mkars80
Date: 2011-12-20 05:22:47 UTC
From: Ken Pendarvis
Topic: 2314 Message: 2316

HI Ken:

Thanks for you helpful and informative message.
I am over here in the old colonies and am unfamiliar
with that publication (Sprat),Could you please be so kind
as to email an address where I might write to the publisher
for back issues?

I was playing with the MKARS just tonight. Even with my fumbling,
it is not awful to tune sans mod, but any mod would be an improvement,
even if it not perfectly linear. I AM very interested in how they do it though.
Thanks agn for the heads up, Ken AD6KA, ex 5R8GQ

From: K.Greenough
Sent: Monday, December 19, 2011 4:23 PM
To: mkars80@....uk
Subject: [mkars80] Re: Varactor mod. question

Hello Ken,
A ten turn pot should give better bandspread than the variable
capacitor in the kit but it will be very non linear bandspread.
Personally I find the Cap' supplied adequate but anyone doing
the varicap mod' might be interested in a circuit that gives near
enough linear tuning with a varicap. It was published in Sprat, the
magazine of the GQRP club. Issue 133, winter 2007/8 . The article
was written by Bob, K3NHI, and titled " Linearization of a varactor
tuned VFO".
73 Ken g8beq

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2317. Re: [mkars80] Re: Varactor mod. question

Yahoo group: mkars80
Date: 2011-12-20 12:37:47 UTC
From: K.Greenough
Topic: 2314 Message: 2317

Hello Ken,
www.gqrp.com
Will take you to the GQRP club web site. Sprat is a marvellous little magazine, quarterly, full of simple designs for all manner of projects. You can get a CD of Sprats very cheaply and you might find joining worthwhile.
Sorry to this group for the plug but I wouldn't mind betting most of the group are members thenselves.
73 Ken g8beq

[Non-text portions of this message have been removed]

2318. Re: [mkars80] Re: Varactor mod. question

Yahoo group: mkars80
Date: 2011-12-20 14:26:59 UTC
From: Ken Pendarvis
Topic: 2314 Message: 2318

hanks for the link and information Ken.
I’m headed over to the wb site rightnoe.
73, Ken

From: K.Greenough
Sent: Tuesday, December 20, 2011 4:37 AM
To: mkars80@...
Subject: Re: [mkars80] Re: Varactor mod. question

Hello Ken,
www.gqrp.com
Will take you to the GQRP club web site. Sprat is a marvellous
little magazine, quarterly, full of simple designs for all manner
of projects. You can get a CD of Sprats very cheaply and you
might find joining worthwhile.
Sorry to this group for the plug but I wouldn't mind betting most
of the group are members thenselves.
73 Ken g8beq

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2319. Illuminated display

Yahoo group: mkars80
Date: 2011-12-20 17:05:31 UTC
From: Ken
Topic: 2319 Message: 2319

What display part number are users switching to when changing to an illuminated display? Or are they just edge lighting the existing one?

Thanks,

ken - wa4mnt

2320. Season Greetings

Yahoo group: mkars80
Date: 2011-12-25 13:01:13 UTC
From: sv3auw
Topic: 2320 Message: 2320

I wish you all Merry Christmas and a Happy New Year!
Health and Joy to you and your family and may your Dreams come true!
Panagiotis
sv3auw/m0lpt

2321. Second batch of printed circuit board holder kits

Yahoo group: mkars80
Date: 2011-12-25 21:50:15 UTC
From: Ken
Topic: 2321 Message: 2321

On to the second batch of board holders kits... I came up with this after I got tired of chasing around pcb's on the bench top during construction and testing. I have one of those gimbaled pcb vises, but it takes up too much room on the bench.

This is perfect for secure holding of PCB's during soldering, prototyping, and testing. A dovetail groove prevents any slipping of the board from the fixture, with minimal clamping pressure. The jaw opening will easily accommodate and securely hold boards from 1/4" to 5", easily extended with longer rods. The jaws are fabricated from UHMW, (ultra-high-molecular-weight polyethylene), rods are Nylon. Easily replaceable elastic band for many years of service.

All the details are here for anyone wanting to build one, or there is a complete kit of machined parts ready for assembly.

http://www.qrpbuilder.com/downloads/pcb_holder_you_can_build.pdf

2322. MKARS80 on the air

Yahoo group: mkars80
Date: 2012-01-04 20:40:45 UTC
From: acmccorm
Topic: 2322 Message: 2322

Hi ,

I recently completed my MKARS80 and decided to try it out in the IRTS 80m Irish counties contest last Monday . Using a 1/4 wave wire I made 24 contacts across Ireland and the UK over the course of about two hours - not bad for only about 4w output and a simple wire antenna.

Thanks for a very well designed kit Steve !

Andrew
EI3FEB

2323. Re: [mkars80] MKARS80 on the air

Yahoo group: mkars80
Date: 2012-01-04 21:46:29 UTC
From: Steve Drury
Topic: 2322 Message: 2323

Glad you like it, we've had some *smiles* during contests!

Steve

On 04/01/2012 20:40, acmccorm wrote:
> Hi ,
>
> I recently completed my MKARS80 and decided to try it out in the IRTS 80m Irish counties contest last Monday . Using a 1/4 wave wire I made 24 contacts across Ireland and the UK over the course of about two hours - not bad for only about 4w output and a simple wire antenna.
>
> Thanks for a very well designed kit Steve !
>
> Andrew
> EI3FEB
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4722 - Release Date: 01/04/12
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>

2324. My first contact outside of the EU with MKARS80

Yahoo group: mkars80
Date: 2012-01-05 19:10:53 UTC
From: woodiescbj
Topic: 2324 Message: 2324

Hi all, it has finally happend, I have had my very first contact as a QRPer outside of the EU and that with the MKARS80, due to a very small garden I have not been able to put up a decent antenna for 80m, untill I came across the KC8AOH Tactical Delta Loop.

(http://www.angelfire.com/electronic2/qrp/tacdelt.html)

Its a full size G5RV but only takes up 1/3 of the space, it fits in my garden as a horizontal "V" about 8m off the ground, I didn't hold out much hope of the ant working but to my amazment I had a contact with VY2/K6AAX Pat on Prince Edward Island, Canada. you can imagine the pile-up he was causing, it took me over 1 hour of calling him but I made it on 27/12/2011 at 06:48 UTC he gave me a 5/7 report and he was 5/9+10dB with me in Bonn, this is something I have been waiting for about 10 years so I am a happy chappy.

Vy 73 and a Happy New Year de Colin DD5CF/G1ZOS

2325. Blown IC4 regulator?

Yahoo group: mkars80
Date: 2012-01-07 19:58:53 UTC
From: Andy2612
Topic: 2325 Message: 2325

Hi there.

This is my first attempt at building anything this complex, so please be gentle!

My repeated inspection of the board failed to notice that I'd inadvertently placed IC4 backwards, a fact that I only discovered when trying to work out why there was no voltage on the +8V test point.

I was able to remove and re-fit IC4, but on power up the board fuse blew instantly. Does this mean I've damaged the regulator and need to replace it, or should I be looking for some other problem on the board before going any further?

Any suggestions to aid further troubleshooting?

Andy M0HAK

2326. Re: [mkars80] Blown IC4 regulator?

Yahoo group: mkars80
Date: 2012-01-07 22:47:54 UTC
From: Steve Drury
Topic: 2325 Message: 2326

Hi Andy,

First remove the regulator as it will be faulty then check with a
multimeter between + and - for a short circuit. On a couple of occasions
we have had the washers on the RF gain and fine tune pots slip across
tracks and cause short circuits so if this is the case loosen the nuts
and push the washers away before re-tightening the nuts..

Let me know the result and send me your address by private email to
steve"at"radio-kits.co.uk and I will send you the required components to
get yourself going.

Regards,
Steve G6ALU

On 07/01/2012 19:58, Andy2612 wrote:
> Hi there.
>
> This is my first attempt at building anything this complex, so please be gentle!
>
> My repeated inspection of the board failed to notice that I'd inadvertently placed IC4
backwards, a fact that I only discovered when trying to work out why there was no voltage
on the +8V test point.
>
> I was able to remove and re-fit IC4, but on power up the board fuse blew instantly. Does
this mean I've damaged the regulator and need to replace it, or should I be looking for
some other problem on the board before going any further?
>
> Any suggestions to aid further troubleshooting?
>
> Andy M0HAK
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> Yahoo! Groups Links
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> No virus found in this message.

> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4728 - Release Date: 01/07/12
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>

2327. Hunter SDR Receiver

Yahoo group: mkars80
Date: 2012-01-10 22:18:19 UTC
From: Andrew
Topic: 2325 Message: 2327

Dear Steve

I have built the Hunter SDR receiver, and it works fine, I know this is the MKARS 80 group, however, are there any plans to build an SDR transmitter?

BR

Andrew

G8UUG

2328. Re: [mkars80] Hunter SDR Receiver

Yahoo group: mkars80
Date: 2012-01-10 23:37:49 UTC
From: Steve Drury
Topic: 2325 Message: 2328

Hello Andrew,

I have an SDR transmitter running but there are significant problems with spurious emissions dependent on what sound card you use. You have probably noticed that Power-SDR (from Flex radio) is set up to use just a few sound cards, these are no doubt the ones that Flex radio have found suitable.

The other problem I noticed is poor performance due to the latency of the sound card / PC software - CW would be very hard to use unless you have a local side-tone (like the Genesis) driven directly by the key / paddle.

A built in CODEC would get round both these problems but that would require programming ability (for USB) beyond mine.

Steve

On 10/01/2012 22:18, Andrew wrote:
> Dear Steve
>
> I have built the Hunter SDR receiver, and it works fine, I know this is
> the MKARS 80 group, however, are there any plans to build an SDR
> transmitter?
>
> BR
>
> Andrew
>
> G8UUG
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> ------------------------------------
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4734 - Release Date: 01/10/12
>

>

2329. Well chuffed

Yahoo group: mkars80
Date: 2012-01-14 16:22:16 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 2329 Message: 2329

This week I finally boxed up my MKARS80 transceiver that I built about 2 years ago but had never tested on air.

I have just connected it up to a 40 foot 'long' wire which is so close to the ground (less than 5 foot at the highest point) that it must act as an NVIS antenna.

I heard GW4BLE calling CQ, called him and he came straight back at 59 both ways.
I am more than chuffed considering the rig is only running about 5W PEP and I hadn't even tuned up the antenna!!!!

Steve you designed a cracking little bit of kit!

I've just ordered the CW adaptor and hope that it takes me less than 2 years to get that running!

Mind you the other project on the bench at the moment is an MKARS80 I got off of ebay for silly money that's showed large signs of 'interesting' soldering but it's working again now and waiting casing up.

All the best

Dale (Slim) Haines G4IPZ

2330. Re: [mkars80] Well chuffed

Yahoo group: mkars80
Date: 2012-01-14 17:19:08 UTC
From: Steve Drury
Topic: 2329 Message: 2330

Glad its working OK Dale, not sure what the record is on length of build
but that must be one of the longest!

All the best,
Steve G6ALU

On 14/01/2012 16:22, Naqoyqatsi (aka the ICM) wrote:
> This week I finally boxed up my MKARS80 transceiver that I built about 2 years ago but had never tested on air.
>
> I have just connected it up to a 40 foot 'long' wire which is so close to the ground (less than 5 foot at the highest point) that it must act as an NVIS antenna.
>
> I heard GW4BLE calling CQ, called him and he came straight back at 59 both ways.
> I am more than chuffed considering the rig is only running about 5W PEP and I hadn't even tuned up the antenna!!!!
>
> Steve you designed a cracking little bit of kit!
>
> I've just ordered the CW adaptor and hope that it takes me less than 2 years to get that running!
>
> Mind you the other project on the bench at the moment is an MKARS80 I got off of ebay for silly money that's showed large signs of 'interesting' soldering but it's working again now and waiting casing up.
>
> All the best
>
> Dale (Slim) Haines G4IPZ
>
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4741 - Release Date: 01/13/12
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2331. Display Assembly - Page 12 of Instructions

Yahoo group: mkars80
Date: 2012-01-14 19:37:35 UTC
From: Frank
Topic: 2331 Message: 2331

Can anyone elaborate on the display connection? What size wire is used? Also there are 16 connection points on the LCD but only 10 connections on the socket strip. Does alignment matter? Any help is appreciated. Thanks so much.
Frank
KD8FIP

2332. Re: [mkars80] Display Assembly - Page 12 of Instructions

Yahoo group: mkars80
Date: 2012-01-14 22:37:56 UTC
From: John
Topic: 2331 Message: 2332

Hello Frank.
It's a while since I finished mine but I will try to help.

First of all make sure that you are using version 1.2 or later of the instructions because in V1.1 it didn't mention the alignment.
The official way is to mount the socket onto the non component side of the PCB and then mount the display so that the left 10 holes of the display align with the socket, then using tinned copper wire push it through the display holes and into the socket,
then making sure the display is parallel with the main PCB just solder the wires to the display board. In that way it can be removed if required.

I used a mating socket and a small piece of ribbon cable so that I could keep the display connected whilst moving it to one side for fault finding. It wasn't necessary for two reasons, 1, the radio works without the display and 2, I was lucky and didn't have any faults! ;-)

I hope that helps, please ask the group if you have any more questions.

Regards,
John.

On 14/01/2012 19:37, Frank wrote:
>
> Can anyone elaborate on the display connection? What size wire is
> used? Also there are 16 connection points on the LCD but only 10
> connections on the socket strip. Does alignment matter? Any help is
> appreciated. Thanks so much.
> Frank
> KD8FIP
>
>

[Non-text portions of this message have been removed]

2333. Re: [mkars80] Display Assembly - Page 12 of Instructions

Yahoo group: mkars80
Date: 2012-01-14 23:03:30 UTC
From: Steve Drury
Topic: 2331 Message: 2333

I intended builders to use off cuts from components to make the
connections - push them through the LCD display into the socket strip
and solder to LCD display, don't use too much solder or it will travel
down the wires into the connector strip and you won't be able to
"unplug" the display if you need to service the radio.

If you don't have any off-cut leads left let me know and I can send a
piece of tinned copper wire.

I have uploaded a couple of photos here
http://uk.groups.yahoo.com/group/mkars80/photos/album/660096965/pic/list
to help.

Steve G6ALU

On 14/01/2012 22:37, John wrote:
> Hello Frank.
> It's a while since I finished mine but I will try to help.
>
> First of all make sure that you are using version 1.2 or later of the
> instructions because in V1.1 it didn't mention the alignment.
> The official way is to mount the socket onto the non component side of
> the PCB and then mount the display so that the left 10 holes of the
> display align with the socket, then using tinned copper wire push it
> through the display holes and into the socket,
> then making sure the display is parallel with the main PCB just solder
> the wires to the display board. In that way it can be removed if required.
>
> I used a mating socket and a small piece of ribbon cable so that I could
> keep the display connected whilst moving it to one side for fault
> finding. It wasn't necessary for two reasons, 1, the radio works without
> the display and 2, I was lucky and didn't have any faults! ;-)
>
> I hope that helps, please ask the group if you have any more questions.
>
> Regards,
> John.
>
> On 14/01/2012 19:37, Frank wrote:
>> Can anyone elaborate on the display connection? What size wire is
>> used? Also there are 16 connection points on the LCD but only 10
>> connections on the socket strip. Does alignment matter? Any help is
>> appreciated. Thanks so much.
>> Frank
>> KD8FIP
>>

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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4742 - Release Date: 01/14/12
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>

2334. Re: [mkars80] Display Assembly - Page 12 of Instructions

Yahoo group: mkars80
Date: 2012-01-15 05:32:03 UTC
From: Frank MacDonell
Topic: 2331 Message: 2334

Thanks John and Steve. Very helpful.

On Sat, Jan 14, 2012 at 6:03 PM, Steve Drury <steve@...> wrote:

> **
>
>
> I intended builders to use off cuts from components to make the
> connections - push them through the LCD display into the socket strip
> and solder to LCD display, don't use too much solder or it will travel
> down the wires into the connector strip and you won't be able to
> "unplug" the display if you need to service the radio.
>
> If you don't have any off-cut leads left let me know and I can send a
> piece of tinned copper wire.
>
> I have uploaded a couple of photos here
> http://uk.groups.yahoo.com/group/mkars80/photos/album/660096965/pic/list
> to help.
>
> Steve G6ALU
>
>
> On 14/01/2012 22:37, John wrote:
> > Hello Frank.
> > It's a while since I finished mine but I will try to help.
> >
> > First of all make sure that you are using version 1.2 or later of the
> > instructions because in V1.1 it didn't mention the alignment.
> > The official way is to mount the socket onto the non component side of
> > the PCB and then mount the display so that the left 10 holes of the
> > display align with the socket, then using tinned copper wire push it
> > through the display holes and into the socket,
> > then making sure the display is parallel with the main PCB just solder
> > the wires to the display board. In that way it can be removed if
> required.
> >
> > I used a mating socket and a small piece of ribbon cable so that I could
> > keep the display connected whilst moving it to one side for fault
> > finding. It wasn't necessary for two reasons, 1, the radio works without
> > the display and 2, I was lucky and didn't have any faults! ;-)
> >
> > I hope that helps, please ask the group if you have any more questions.
> >
> > Regards,

> > John.
> >
> > On 14/01/2012 19:37, Frank wrote:
> >> Can anyone elaborate on the display connection? What size wire is
> >> used? Also there are 16 connection points on the LCD but only 10
> >> connections on the socket strip. Does alignment matter? Any help is
> >> appreciated. Thanks so much.
> >> Frank
> >> KD8FIP
> >>
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> > [Non-text portions of this message have been removed]
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1901 / Virus Database: 2109/4742 - Release Date: 01/14/12
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--
Frank KD8FIP

[Non-text portions of this message have been removed]

2335. VFO doesn't start normally

Yahoo group: mkars80
Date: 2012-01-15 10:27:21 UTC
From: PH9Z@amsat.org
Topic: 2335 Message: 2335

Hi,

I'm in the testing fase of my kit. If have a couple of problems. One is that the VFO doesn't always start.
Sometimes it starts when I put a scope probe on the poly varcon and it keeps running.
But when I do a power cycle is doesn't start again...

Any pointers?

73 John PH9Z

2336. Re: [mkars80] VFO doesn't start normally

Yahoo group: mkars80
Date: 2012-01-15 17:00:44 UTC
From: Steve Drury
Topic: 2335 Message: 2336

John,

Can honestly say I haven't seen this problem before - when it starts is it on the correct frequency? Have you done a voltage check on the oscillator and buffer transistors?

What is your second problem? Just in case its related.

Please come back with the answers and we will go from there.

Steve G6ALU

On 15/01/2012 10:27, PH9Z@... wrote:
> Hi,
>
> I'm in the testing fase of my kit. If have a couple of problems. One is that the VFO doesn't always start.
> Sometimes it starts when I put a scope probe on the poly varcon and it keeps running.
> But when I do a power cycle is doesn't start again...
>
> Any pointers?
>
> 73 John PH9Z
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4743 - Release Date: 01/14/12
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>

2337. Re: VFO doesn't start normally

Yahoo group: mkars80
Date: 2012-01-15 17:33:38 UTC
From: PH9Z@amsat.org
Topic: 2335 Message: 2337

Hi Steve,

The frequency is Ok. The second problem is recieving at all. It only recieves every now and then. I'm supecting a solder problem somewhere. At the moment I'm reheating all the points.

73 John PH9Z

--- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:
>
> John,
>
> Can honestly say I haven't seen this problem before - when it starts is
> it on the correct frequency? Have you done a voltage check on the
> oscillator and buffer transistors?
>
> What is your second problem? Just in case its related.
>
> Please come back with the answers and we will go from there.
>
> Steve G6ALU
>
...snip..

2338. Re: [mkars80] Re: VFO doesn't start normally

Yahoo group: mkars80
Date: 2012-01-15 17:38:58 UTC
From: Steve Drury
Topic: 2335 Message: 2338

John,

Not receiving intermittently is likely to be caused by poor joints on
the mixer transformer connections - best to go over them with a very hot
soldering iron to ensure all the enamel has burned off and a good
connection made.

Check the VFO voltages are OK.

Regards,
Steve G6ALU

On 15/01/2012 17:33, PH9Z@... wrote:
> Hi Steve,
>
> The frequency is Ok. The second problem is recieving at all. It only recieves every now and then. I'm supecting a solder problem somewhere. At the moment I'm reheating all the points.
>
> 73 John PH9Z
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> John,
>>
>> Can honestly say I haven't seen this problem before - when it starts is
>> it on the correct frequency? Have you done a voltage check on the
>> oscillator and buffer transistors?
>>
>> What is your second problem? Just in case its related.
>>
>> Please come back with the answers and we will go from there.
>>
>> Steve G6ALU
>>
> ...snip..
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4743 - Release Date: 01/14/12
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>

2339. Re: VFO doesn't start normally

Yahoo group: mkars80
Date: 2012-01-15 18:31:21 UTC
From: PH9Z@amsat.org
Topic: 2335 Message: 2339

Steve,

I've have resoldered everything and I think if i do any more soldering I will destroy the PCB..... As far as I can measure the mixer is connected fine. All the voltage seem to be there. I don't have a trx on 80 mtr operational so I can't "inject" any signals ;-(.

Can you (or someone else) have a look if I send it over?

73 John PH9Z

--- In mkars80@....uk, Steve Drury <steve@...> wrote:
>
> John,
>
> Not receiving intermittently is likely to be caused by poor joints on
> the mixer transformer connections - best to go over them with a very hot
> soldering iron to ensure all the enamel has burned off and a good
> connection made.
>
> Check the VFO voltages are OK.
>
> Regards,
> Steve G6ALU
>
> On 15/01/2012 17:33, PH9Z@... wrote:
> > Hi Steve,
> >
> > The frequency is Ok. The second problem is recieving at all. It only recieves every now and then. I'm supecting a solder problem somewhere. At the moment I'm reheating all the points.
> >
> > 73 John PH9Z
> >
> > --- In mkars80@..., Steve Drury<steve@> wrote:
> >> John,
> >>
> >> Can honestly say I haven't seen this problem before - when it starts is
> >> it on the correct frequency? Have you done a voltage check on the
> >> oscillator and buffer transistors?
> >>
> >> What is your second problem? Just in case its related.
> >>
> >> Please come back with the answers and we will go from there.
> >>
> >> Steve G6ALU
> >>

> > ...snip..
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1901 / Virus Database: 2109/4743 - Release Date: 01/14/12
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>

2340. Re: [mkars80] Re: VFO doesn't start normally

Yahoo group: mkars80
Date: 2012-01-15 19:01:14 UTC
From: Steve Drury
Topic: 2335 Message: 2340

John,

You may send it back (use the address on the invoice) but I may not be
able to offer a fast service, I will ask you to pay the return postage.
If you do return it please used a "signed for" service and pack it well
to protect against damage - the display need not be fitted.

Regards,
Steve G6ALU

On 15/01/2012 18:31, PH9Z@... wrote:
> Steve,
>
> I've have resoldered everything and I think if i do any more soldering I will destroy the PCB..... As far as I can measure the mixer is connected fine. All the voltage seem to be there. I don't have a trx on 80 mtr operational so I can't "inject" any signals ;-(.
>
> Can you (or someone else) have a look if I send it over?
>
> 73 John PH9Z
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> John,
>>
>> Not receiving intermittently is likely to be caused by poor joints on
>> the mixer transformer connections - best to go over them with a very hot
>> soldering iron to ensure all the enamel has burned off and a good
>> connection made.
>>
>> Check the VFO voltages are OK.
>>
>> Regards,
>> Steve G6ALU
>>
>> On 15/01/2012 17:33, PH9Z@... wrote:
>>> Hi Steve,
>>>
>>> The frequency is Ok. The second problem is recieving at all. It only recieves every now and then. I'm supecting a solder problem somewhere. At the moment I'm reheating all the points.
>>>
>>> 73 John PH9Z
>>>
>>> --- In mkars80@..., Steve Drury<steve@> wrote:
>>>> John,
>>>>

>>>> Can honestly say I haven't seen this problem before - when it starts is
>>>> it on the correct frequency? Have you done a voltage check on the
>>>> oscillator and buffer transistors?
>>>>
>>>> What is your second problem? Just in case its related.
>>>>
>>>> Please come back with the answers and we will go from there.
>>>>
>>>> Steve G6ALU
>>>>
>>> ...snip..
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>>> Checked by AVG - www.avg.com
>>> Version: 2012.0.1901 / Virus Database: 2109/4743 - Release Date: 01/14/12
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4743 - Release Date: 01/14/12
>
>

2341. Re: VFO doesn't start normally

Yahoo group: mkars80
Date: 2012-01-15 19:06:51 UTC
From: PH9Z@amsat.org
Topic: 2335 Message: 2341

Steve,

Thanks for the offer! I will send it to you this week.

73 John PH9Z

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> John,
>
> You may send it back (use the address on the invoice) but I may not be
> able to offer a fast service, I will ask you to pay the return postage.
> If you do return it please used a "signed for" service and pack it well
> to protect against damage - the display need not be fitted.
>
> Regards,
> Steve G6ALU
>
> On 15/01/2012 18:31, PH9Z@... wrote:
> > Steve,
> >
> > I've have resoldered everything and I think if i do any more soldering I will destroy the PCB..... As far as I can measure the mixer is connected fine. All the voltage seem to be there. I don't have a trx on 80 mtr operational so I can't "inject" any signals ;-(.
> >
> > Can you (or someone else) have a look if I send it over?
> >
> > 73 John PH9Z
> >
> > --- In mkars80@..., Steve Drury<steve@> wrote:
> >> John,
> >>
> >> Not receiving intermittently is likely to be caused by poor joints on
> >> the mixer transformer connections - best to go over them with a very hot
> >> soldering iron to ensure all the enamel has burned off and a good
> >> connection made.
> >>
> >> Check the VFO voltages are OK.
> >>
> >> Regards,
> >> Steve G6ALU
> >>
> >> On 15/01/2012 17:33, PH9Z@ wrote:
> >>> Hi Steve,
> >>>
> >>> The frequency is Ok. The second problem is recieving at all. It only recieves every

now and then. I'm supecting a solder problem somewhere. At the moment I'm reheating all the points.
> >>>
> >>> 73 John PH9Z
> >>>
> >>> --- In mkars80@..., Steve Drury<steve@> wrote:
> >>>> John,
> >>>>
> >>>> Can honestly say I haven't seen this problem before - when it starts is
> >>>> it on the correct frequency? Have you done a voltage check on the
> >>>> oscillator and buffer transistors?
> >>>>
> >>>> What is your second problem? Just in case its related.
> >>>>
> >>>> Please come back with the answers and we will go from there.
> >>>>
> >>>> Steve G6ALU
> >>>>
> >>> ...snip..
> >>>
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
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> >>>
> >>> -----
> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 2012.0.1901 / Virus Database: 2109/4743 - Release Date: 01/14/12
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> > > Yahoo! Groups Links
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> > >
> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1901 / Virus Database: 2109/4743 - Release Date: 01/14/12

> >
> >
>

2342. Mic Selection

Yahoo group: mkars80
Date: 2012-01-15 20:48:47 UTC
From: Frank
Topic: 2342 Message: 2342

Can anyone recommend a good mic for the radio? Tnx in advance. This is a great group.
Frank
KD8FIP

2343. Re: Mic Selection

Yahoo group: mkars80
Date: 2012-01-15 21:05:13 UTC
From: Trygve Sjothun
Topic: 2342 Message: 2343

If you have a "Dollar Store" nearby then you will most likely find some kind of "computer microphone" there. You could also try to get hold of one of the larger mic elements that *used *to be made by Panasonic and build up from there. That's the best I can come up with. 73, Tryg EI7CLB

--
"A human being should be able to change a diaper, plan an invasion, butcher a hog, conn a ship, design a building, write a sonnet, balance accounts, build a wall, set a bone, comfort the dying, take orders, give orders, cooperate, act alone, solve equations, analyze a new problem, pitch manure, program a computer, cook a tasty meal, fight efficiently, die gallantly. Specialization is for insects." ? Robert Heinlein

[Non-text portions of this message have been removed]

2344. Re: [mkars80] Re: VFO doesn't start normally

Yahoo group: mkars80
Date: 2012-01-15 21:07:21 UTC
From: Panagiotis Perreas
Topic: 2335 Message: 2344

Hi John!
Check if you have 12V on both sides of T3 and T1.
Enamelled wire give trouble from time to time.
Unsolder the transformers and scratch the enamel thoroughly before you solder them back again.
Usualy this is a cure of the problem!
Panos
sv3auw/m0lpt

From: "PH9Z@..." <PH9Z@...>
To: mkars80@...
Sent: Sunday, 15 January 2012, 18:31
Subject: [mkars80] Re: VFO doesn't start normally

Steve,

I've have resoldered everything and I think if i do any more soldering I will destroy the PCB..... As far as I can measure the mixer is connected fine. All the voltage seem to be there. I don't have a trx on 80 mtr operational so I can't "inject" any signals ;-(.

Can you (or someone else) have a look if I send it over?

73 John PH9Z

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> John,
>
> Not receiving intermittently is likely to be caused by poor joints on
> the mixer transformer connections - best to go over them with a very hot
> soldering iron to ensure all the enamel has burned off and a good
> connection made.
>
> Check the VFO voltages are OK.
>
> Regards,
> Steve G6ALU
>
> On 15/01/2012 17:33, PH9Z@... wrote:
> > Hi Steve,
> >
> > The frequency is Ok. The second problem is recieving at all. It only recieves every now and then. I'm supecting a solder problem somewhere. At the moment I'm reheating all the points.
> >

> > 73 John PH9Z
> >
> > --- In mkars80@....uk, Steve Drury<steve@> wrote:
> >> John,
> >>
> >> Can honestly say I haven't seen this problem before - when it starts is
> >> it on the correct frequency? Have you done a voltage check on the
> >> oscillator and buffer transistors?
> >>
> >> What is your second problem? Just in case its related.
> >>
> >> Please come back with the answers and we will go from there.
> >>
> >> Steve G6ALU
> >>
> > ...snip..
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1901 / Virus Database: 2109/4743 - Release Date: 01/14/12
> >
> >
>

[Non-text portions of this message have been removed]

2345. Re: Mic Selection

Yahoo group: mkars80
Date: 2012-01-15 21:38:16 UTC
From: cityofdomes
Topic: 2342 Message: 2345

ebay has lots of PC mics which you can pull apart and add ptt momentary(I built one into a pen), also for $10 off ebay a single plug speaker mic is suitable and looks good with the radio, just pull it open, remove the speaker (to stop possibility of coupling) and wire for simple ptt as these mics have a capacitor mic inside them.
73
Carmel
VK2CAR

--- In mkars80@yahoogroups.co.uk, "Frank" <kd8fip@...> wrote:
>
> Can anyone recommend a good mic for the radio? Tnx in advance. This is a great group.
> Frank
> KD8FIP
>

2346. Big Characters on standard display

Yahoo group: mkars80
Date: 2012-01-16 15:13:22 UTC
From: Rob Lane
Topic: 2346 Message: 2346

I'v been playing with some code I was using for dual height characters on a 16x2 display.

I applied the code to a 20x2 for test purposes and I've posted a photo of the result.

2347. Re: [mkars80] Big Characters on standard display

Yahoo group: mkars80
Date: 2012-01-16 17:02:06 UTC
From: steve@radio-kits.co.uk
Topic: 2346 Message: 2347

On 16.01.2012 15:13, Rob Lane wrote:
> I'v been playing with some code I was using for dual height
> characters on a 16x2 display.
>
> I applied the code to a 20x2 for test purposes and I've posted a
> photo of the result.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
Looks Good Rob (photo in the photos section), are you going to modify the code? Can it display all numbers?

Steve G6ALU

2348. Re: Big Characters on standard display

Yahoo group: mkars80
Date: 2012-01-16 18:24:18 UTC
From: Rob Lane
Topic: 2346 Message: 2348

Yes all numbers are possible and also a slightly 'thicker' numbers version.

It uses the 8 custom character locations (0 to 7) in the LCD display to store the pieces that make up the numbers. Such as U and L (not characters but shapes) if you look closely at pic you get the idea.

A routine is used for each number to display on the LCD over two lines with same location code.

This such as:

Zero:
LCDOUT $FE,$80+position, 1
LCDOUT $FE,$C0+position, 5

One:
LCDOUT $FE,$80+position, 0
LCDOUT $FE,$C0+position, 0

Where position is a matching byte and the single digit is the custom character

I'm not an assembler coder but I use a basic compiler.

At the moment I've bought a 16f819 for more code space and written code that covers everything but with the ideas as markers.
i.e, huff n puff as a pwmout: call but not yet fully coded.

I'm concentrating on getting the frequency counter running accurately. (Timing)

I suspect you could possibly implement the idea in assembler for the 818 as it still has some room left.

Rob (G4NQX & G8VLQ)

--- In mkars80@..., steve@... wrote:
>
> On 16.01.2012 15:13, Rob Lane wrote:
> > I'v been playing with some code I was using for dual height
> > characters on a 16x2 display.
> >
> > I applied the code to a 20x2 for test purposes and I've posted a
> > photo of the result.
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links

> >
> >
> >
> Looks Good Rob (photo in the photos section), are you going to modify
> the code? Can it display all numbers?
>
> Steve G6ALU
>

2349. Re: [mkars80] Re: Big Characters on standard display

Yahoo group: mkars80
Date: 2012-01-16 21:06:54 UTC
From: Steve Drury
Topic: 2346 Message: 2349

Hi Rob,

I used pure PWM for Huff and Puff before but found the way I do it now
better, less noise on the VCO control volts.

Steve

On 16/01/2012 18:24, Rob Lane wrote:
> Yes all numbers are possible and also a slightly 'thicker' numbers version.
>
> It uses the 8 custom character locations (0 to 7) in the LCD display to store the pieces that make up the numbers. Such as U and L (not characters but shapes) if you look closely at pic you get the idea.
>
> A routine is used for each number to display on the LCD over two lines with same location code.
>
> This such as:
>
> Zero:
> LCDOUT $FE,$80+position, 1
> LCDOUT $FE,$C0+position, 5
>
> One:
> LCDOUT $FE,$80+position, 0
> LCDOUT $FE,$C0+position, 0
>
> Where position is a matching byte and the single digit is the custom character
>
> I'm not an assembler coder but I use a basic compiler.
>
> At the moment I've bought a 16f819 for more code space and written code that covers everything but with the ideas as markers.
> i.e, huff n puff as a pwmout: call but not yet fully coded.
>
> I'm concentrating on getting the frequency counter running accurately. (Timing)
>
> I suspect you could possibly implement the idea in assembler for the 818 as it still has some room left.
>
> Rob (G4NQX& G8VLQ)
>
> --- In mkars80@..., steve@... wrote:
>> On 16.01.2012 15:13, Rob Lane wrote:
>>> I'v been playing with some code I was using for dual height
>>> characters on a 16x2 display.

>>>
>>> I applied the code to a 20x2 for test purposes and I've posted a
>>> photo of the result.
>>>
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
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>>>
>>>
>> Looks Good Rob (photo in the photos section), are you going to modify
>> the code? Can it display all numbers?
>>
>> Steve G6ALU
>>
>
>
>
> ------------------------------------
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> Yahoo! Groups Links
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>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4746 - Release Date: 01/16/12
>
>

2350. Re: Big Characters on standard display

Yahoo group: mkars80
Date: 2012-01-17 11:27:45 UTC
From: Rob Lane
Topic: 2346 Message: 2350

Hi Steve,

Yes I liked the filter after the output. I quickly glanced at your code, how did you utilise the pwm to lock the vfo? I think I saw a small pwm and then a larger pwm controlling it, am I correct?

The filter gave me an idea on how to utilise a design I made some time back.
I have the varicap tuning mod fitted and so i made up a basic pwm drive up/down/memory tuner for it but was never able to get the required voltage swing using freq to volt conversion. Thinking now I could use the filter idea and voltage only conversion to make it work.

Right now I've stuffed the 819 chip so the big character idea is waiting for another one. I've been developing something else alongside and stupidly fitted the chip in reverse in the development board when I changed over!

We did meet a couple of times but I'm pretty anonymous, so you probably don't remember. Last time was at GQRP convention.

Rob

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Hi Rob,
>
> I used pure PWM for Huff and Puff before but found the way I do it now
> better, less noise on the VCO control volts.
>
> Steve
>
> On 16/01/2012 18:24, Rob Lane wrote:
> > Yes all numbers are possible and also a slightly 'thicker' numbers version.
> >
> > It uses the 8 custom character locations (0 to 7) in the LCD display to store the pieces that make up the numbers. Such as U and L (not characters but shapes) if you look closely at pic you get the idea.
> >
> > A routine is used for each number to display on the LCD over two lines with same location code.
> >
> > This such as:
> >
> > Zero:
> > LCDOUT $FE,$80+position, 1
> > LCDOUT $FE,$C0+position, 5
> >

> > One:
> > LCDOUT $FE,$80+position, 0
> > LCDOUT $FE,$C0+position, 0
> >
> > Where position is a matching byte and the single digit is the custom character
> >
> > I'm not an assembler coder but I use a basic compiler.
> >
> > At the moment I've bought a 16f819 for more code space and written code that covers everything but with the ideas as markers.
> > i.e, huff n puff as a pwmout: call but not yet fully coded.
> >
> > I'm concentrating on getting the frequency counter running accurately. (Timing)
> >
> > I suspect you could possibly implement the idea in assembler for the 818 as it still has some room left.
> >
> > Rob (G4NQX& G8VLQ)
> >
> > --- In mkars80@..., steve@ wrote:
> >> On 16.01.2012 15:13, Rob Lane wrote:
> >>> I'v been playing with some code I was using for dual height
> >>> characters on a 16x2 display.
> >>>
> >>> I applied the code to a 20x2 for test purposes and I've posted a
> >>> photo of the result.
> >>>
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
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> >>>
> >>>
> >> Looks Good Rob (photo in the photos section), are you going to modify
> >> the code? Can it display all numbers?
> >>
> >> Steve G6ALU
> >>
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1901 / Virus Database: 2109/4746 - Release Date: 01/16/12
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> >
>

2351. Mic Selection

Yahoo group: mkars80
Date: 2012-01-17 21:58:31 UTC
From: Frank
Topic: 2342 Message: 2351

Thanks guys. Not much luck in my search for a mic, however I did find this one from MFJ. Your opinions please. Thanks in advance....again.

http://www.mfjenterprises.com/Product.php?productid=MFJ-287K

2352. LED and MIC Switch

Yahoo group: mkars80
Date: 2012-01-23 23:44:20 UTC
From: Frank
Topic: 2352 Message: 2352

Steve and others - Please help, I am a liberal arts guy.

I had to purchase a new LED. Hoping this is suitable replacement which is 3mm, Red, T-1 Size, 3 Volt, 15mA, 2.5mcd. Power dissipation is 45mW and forward current is 15mA max.

Can you send photo of how you suggest wiring up the mic switch? Thanks very much.
Frank KD8FIP

2353. Re: [mkars80] LED and MIC Switch

Yahoo group: mkars80
Date: 2012-01-24 05:15:42 UTC
From: John
Topic: 2352 Message: 2353

Hi Frank.

Steve will be able to give the final word on the LED but looking at the resistor value feeding it and the zener I would say it's fine.

I've enclosed a drawing I just did of the plug wiring but I doubt that it will come through to the group so a copy has been sent direct.

I hope that's what you wanted.

Regards,
John.

On 23/01/2012 23:44, Frank wrote:
>
> Steve and others - Please help, I am a liberal arts guy.
>
> I had to purchase a new LED. Hoping this is suitable replacement which
> is 3mm, Red, T-1 Size, 3 Volt, 15mA, 2.5mcd. Power dissipation is 45mW
> and forward current is 15mA max.
>
> Can you send photo of how you suggest wiring up the mic switch? Thanks
> very much.
> Frank KD8FIP
>
>

[Non-text portions of this message have been removed]

2354. Re: [mkars80] LED and MIC Switch

Yahoo group: mkars80
Date: 2012-01-24 20:41:58 UTC
From: Steve Drury
Topic: 2352 Message: 2354

Frank, are you OK with Johns diagram?

The LED should be OK if it lights, you won't cause any harm.

Steve

On 24/01/2012 05:15, John wrote:
> Hi Frank.
>
> Steve will be able to give the final word on the LED but looking at the
> resistor value feeding it and the zener I would say it's fine.
>
> I've enclosed a drawing I just did of the plug wiring but I doubt that
> it will come through to the group so a copy has been sent direct.
>
> I hope that's what you wanted.
>
> Regards,
> John.
>
> On 23/01/2012 23:44, Frank wrote:
>> Steve and others - Please help, I am a liberal arts guy.
>>
>> I had to purchase a new LED. Hoping this is suitable replacement which
>> is 3mm, Red, T-1 Size, 3 Volt, 15mA, 2.5mcd. Power dissipation is 45mW
>> and forward current is 15mA max.
>>
>> Can you send photo of how you suggest wiring up the mic switch? Thanks
>> very much.
>> Frank KD8FIP
>>
>>
>
> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4761 - Release Date: 01/23/12
>
>

2355. Re: [mkars80] LED and MIC Switch

Yahoo group: mkars80
Date: 2012-01-24 23:16:55 UTC
From: John
Topic: 2352 Message: 2355

Hi Steve.

Following the diagram this morning I sent Frank a picture and
description of the little box containing the PTT switch I made.
It's just got a couple of stereo socket wired together and the switch
shorts the 2 points when pressed, I did that so I could easily change
the microphone and I have a few of the audio leads with stereo plugs
fitted to go between the box & the radio kicking around.

Hope you are keeping well.

All the best,
John.

On 24/01/2012 20:41, Steve Drury wrote:
>
> Frank, are you OK with Johns diagram?
>
> The LED should be OK if it lights, you won't cause any harm.
>
> Steve
>
> On 24/01/2012 05:15, John wrote:
> > Hi Frank.
> >
> > Steve will be able to give the final word on the LED but looking at the
> > resistor value feeding it and the zener I would say it's fine.
> >
> > I've enclosed a drawing I just did of the plug wiring but I doubt that
> > it will come through to the group so a copy has been sent direct.
> >
> > I hope that's what you wanted.
> >
> > Regards,
> > John.
> >
> > On 23/01/2012 23:44, Frank wrote:
> >> Steve and others - Please help, I am a liberal arts guy.
> >>
> >> I had to purchase a new LED. Hoping this is suitable replacement which
> >> is 3mm, Red, T-1 Size, 3 Volt, 15mA, 2.5mcd. Power dissipation is 45mW
> >> and forward current is 15mA max.
> >>
> >> Can you send photo of how you suggest wiring up the mic switch? Thanks
> >> very much.
> >> Frank KD8FIP

> >>
> >>
> >
> > [Non-text portions of this message have been removed]
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> >
> > ------------------------------------
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> > Yahoo! Groups Links
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> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1901 / Virus Database: 2109/4761 - Release Date:
> 01/23/12
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>

[Non-text portions of this message have been removed]

2356. Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-25 22:13:59 UTC
From: simonmcgraw@btinternet.com
Topic: 2356 Message: 2356

Hi, I have been trying to set my BFO to 10.000MHz using a frequency counter but as I adjust C83 it peaks out at 9.99907Mhz then drops again.
What am I doing wrong? Thank you for your help
Simon

2357. Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-25 23:45:11 UTC
From: Hans-Göran Börjesson
Topic: 2356 Message: 2357

Hello Simon !

You are NOT doing wrong ! The BFO freq. should be just about 9.997 on LSB ,so you are absolutly in right direction.Let it be there and
go further with your building !
73 de sm6mpa/Hasse

[Non-text portions of this message have been removed]

2358. Almost Done

Yahoo group: mkars80
Date: 2012-01-26 01:47:59 UTC
From: Frank
Topic: 2358 Message: 2358

Steve and John - I bought a computer desktop mic (Altech Lansing) for $4.95 and installed a push to make switch and confirmed that it works on my laptop. When I plug into the radio, LED is brightly lit and constant with no modulation. Any ideas?

BTW, fantastic receive on the radio. Works very nicely, just need your input for the TX. Thanks.....again.
Frank KD8FIP

2359. Re: [mkars80] Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-26 07:58:33 UTC
From: steve@radio-kits.co.uk
Topic: 2356 Message: 2359

On 25.01.2012 22:13, simonmcgraw@... wrote:
> Hi, I have been trying to set my BFO to 10.000MHz using a frequency
> counter but as I adjust C83 it peaks out at 9.99907Mhz then drops
> again.
> What am I doing wrong? Thank you for your help
> Simon
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
Hello Simon,

You really need to have the BFO correct at 10.000MHz, first check the capacitors around the oscillator are the correct value. If all looks OK I will send you another crystal and trimmer, I've not had this problem before though.

Regards,
Steve G6ALU

2360. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 08:03:10 UTC
From: steve@radio-kits.co.uk
Topic: 2358 Message: 2360

On 26.01.2012 01:47, Frank wrote:
> Steve and John - I bought a computer desktop mic (Altech Lansing) for
> $4.95 and installed a push to make switch and confirmed that it works
> on my laptop. When I plug into the radio, LED is brightly lit and
> constant with no modulation. Any ideas?
>
> BTW, fantastic receive on the radio. Works very nicely, just need
> your input for the TX. Thanks.....again.
> Frank KD8FIP
>

Frank,
I didn't see Johns sketch so here are my instructions!

The PTT is wired between the stereo jack outer connection and sleeve contact, the microphone is wired with the screen wire to the jack outer connection with the centre wire connected to the jack tip.

When you speak can you hear any audio coming from the loudspeaker? If the microphone is correctly connected you will normally hear a small amount of microphone audio from the speaker.

Regards,
Steve G6ALU

2361. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 08:20:14 UTC
From: John
Topic: 2358 Message: 2361

Hi Steve.

This is the picture I sent Frank.

Regards,
John.

On 26/01/2012 08:03, steve@... wrote:
>
> On 26.01.2012 01:47, Frank wrote:
> > Steve and John - I bought a computer desktop mic (Altech Lansing) for
> > $4.95 and installed a push to make switch and confirmed that it works
> > on my laptop. When I plug into the radio, LED is brightly lit and
> > constant with no modulation. Any ideas?
> >
> > BTW, fantastic receive on the radio. Works very nicely, just need
> > your input for the TX. Thanks.....again.
> > Frank KD8FIP
> >
>
> Frank,
> I didn't see Johns sketch so here are my instructions!
>
> The PTT is wired between the stereo jack outer connection and sleeve
> contact, the microphone is wired with the screen wire to the jack outer
> connection with the centre wire connected to the jack tip.
>
> When you speak can you hear any audio coming from the loudspeaker? If
> the microphone is correctly connected you will normally hear a small
> amount of microphone audio from the speaker.
>
> Regards,
> Steve G6ALU
>
>

[Non-text portions of this message have been removed]

2362. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 08:23:08 UTC
From: John
Topic: 2358 Message: 2362

Sorry, I sent that to the group and I know pictures are stripped off!

It's early in the morning for me!

On 26/01/2012 08:03, steve@... wrote:
>
> On 26.01.2012 01:47, Frank wrote:
> > Steve and John - I bought a computer desktop mic (Altech Lansing) for
> > $4.95 and installed a push to make switch and confirmed that it works
> > on my laptop. When I plug into the radio, LED is brightly lit and
> > constant with no modulation. Any ideas?
> >
> > BTW, fantastic receive on the radio. Works very nicely, just need
> > your input for the TX. Thanks.....again.
> > Frank KD8FIP
> >
>
> Frank,
> I didn't see Johns sketch so here are my instructions!
>
> The PTT is wired between the stereo jack outer connection and sleeve
> contact, the microphone is wired with the screen wire to the jack outer
> connection with the centre wire connected to the jack tip.
>
> When you speak can you hear any audio coming from the loudspeaker? If
> the microphone is correctly connected you will normally hear a small
> amount of microphone audio from the speaker.
>
> Regards,
> Steve G6ALU
>
>

[Non-text portions of this message have been removed]

2363. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 10:13:18 UTC
From: steve@radio-kits.co.uk
Topic: 2358 Message: 2363

Hi John,

Saw the picture (from private email) and looks nice and clear - only comment I have is that the electret microphone capsules are polarised so the ground side goes to the jack outer connection.

Steve

On 26.01.2012 08:20, John wrote:
> Hi Steve.
>
> This is the picture I sent Frank.
>
> Regards,
> John.
>
> On 26/01/2012 08:03, steve@... wrote:
>>
>> On 26.01.2012 01:47, Frank wrote:
>> > Steve and John - I bought a computer desktop mic (Altech Lansing) for
>> > $4.95 and installed a push to make switch and confirmed that it works
>> > on my laptop. When I plug into the radio, LED is brightly lit and
>> > constant with no modulation. Any ideas?
>> >
>> > BTW, fantastic receive on the radio. Works very nicely, just need
>> > your input for the TX. Thanks.....again.
>> > Frank KD8FIP
>> >
>>
>> Frank,
>> I didn't see Johns sketch so here are my instructions!
>>
>> The PTT is wired between the stereo jack outer connection and sleeve
>> contact, the microphone is wired with the screen wire to the jack outer
>> connection with the centre wire connected to the jack tip.
>>
>> When you speak can you hear any audio coming from the loudspeaker? If
>> the microphone is correctly connected you will normally hear a small
>> amount of microphone audio from the speaker.
>>
>> Regards,
>> Steve G6ALU

>>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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2364. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 12:36:28 UTC
From: Frank MacDonell
Topic: 2358 Message: 2364

Thanks Steve. The mic cable is coax. I wired the center conductor to the plug tip. I then wired the braid (PTT Circuit) to middle contact and outer contact. Works great on my laptop as a test. Ideas? Thanks. Frank KD8FIP

On Thu, Jan 26, 2012 at 3:03 AM, <steve@...> wrote:

> **
>
>
> On 26.01.2012 01:47, Frank wrote:
> > Steve and John - I bought a computer desktop mic (Altech Lansing) for
> > $4.95 and installed a push to make switch and confirmed that it works
> > on my laptop. When I plug into the radio, LED is brightly lit and
> > constant with no modulation. Any ideas?
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> > BTW, fantastic receive on the radio. Works very nicely, just need
> > your input for the TX. Thanks.....again.
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> >
>
> Frank,
> I didn't see Johns sketch so here are my instructions!
>
> The PTT is wired between the stereo jack outer connection and sleeve
> contact, the microphone is wired with the screen wire to the jack outer
> connection with the centre wire connected to the jack tip.
>
> When you speak can you hear any audio coming from the loudspeaker? If
> the microphone is correctly connected you will normally hear a small
> amount of microphone audio from the speaker.
>
> Regards,
> Steve G6ALU
>
>
>

--
Frank KD8FIP

[Non-text portions of this message have been removed]

2365. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 12:56:54 UTC
From: John
Topic: 2358 Message: 2365

Hi Steve.

I did mark it as +ve to the tip & -ve to the outer connection. Perhaps I should have said ground rather than -ve.

John.

On 26/01/2012 10:13, steve@... wrote:
>
> Hi John,
>
> Saw the picture (from private email) and looks nice and clear - only
> comment I have is that the electret microphone capsules are polarised so
> the ground side goes to the jack outer connection.
>
> Steve
>
> On 26.01.2012 08:20, John wrote:
> > Hi Steve.
> >
> > This is the picture I sent Frank.
> >
> > Regards,
> > John.
> >
> > On 26/01/2012 08:03, steve@...
> <mailto:steve%40radio-kits.co.uk> wrote:
> >>
> >> On 26.01.2012 01:47, Frank wrote:
> >> > Steve and John - I bought a computer desktop mic (Altech Lansing)
> >> for
> >> > $4.95 and installed a push to make switch and confirmed that it
> >> works
> >> > on my laptop. When I plug into the radio, LED is brightly lit and
> >> > constant with no modulation. Any ideas?
> >> >
> >> > BTW, fantastic receive on the radio. Works very nicely, just need
> >> > your input for the TX. Thanks.....again.
> >> > Frank KD8FIP
> >> >
> >>
> >> Frank,
> >> I didn't see Johns sketch so here are my instructions!
> >>
> >> The PTT is wired between the stereo jack outer connection and sleeve
> >> contact, the microphone is wired with the screen wire to the jack

> >> outer
> >> connection with the centre wire connected to the jack tip.
> >>
> >> When you speak can you hear any audio coming from the loudspeaker?
> >> If
> >> the microphone is correctly connected you will normally hear a small
> >> amount of microphone audio from the speaker.
> >>
> >> Regards,
> >> Steve G6ALU
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> > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

2366. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 13:19:44 UTC
From: K.Greenough
Topic: 2358 Message: 2366

Hello Frank,
The braid on the coax' lead from your mic' should only go to
the outer connection on the plug, the inner of the coax goes to
the tip connection. Your push to talk switch should have one lead
to the outer of the plug [you could take it to the braid at the mic'
end of the cable] and the other lead from the switch goes to the
connection on the plug for the band. If it still does not work, try
an ohm meter across the leads from the PTT switch to check that
there is no circuit when the switch is not pressed. I have seen some
stereo plugs that were not standard in that the band was much longer than
usual, this type of plug could short the band to ground without any other
connection. Easily tested, just plug the plug without any wires into the
socket, it should do nothing, if the set goes into transmit the plug is not
suitable.
73 Ken g8beq

2367. Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-26 17:40:51 UTC
From: Hasse
Topic: 2356 Message: 2367

Hello agn Simon !

I`m sorry ab my answer.I was thingking of BITX20 and BITX 40, kits
that i also have built.There you set the BFO minus 3 or 5 KHz depending if you work LSB or USB.Listen to Steve !!Once agn - sorry !
73 de sm6mpa/Hasse

--- In mkars80@..., "simonmcgraw@..." <simonmcgraw@...> wrote:
>
> Hi, I have been trying to set my BFO to 10.000MHz using a frequency counter but as I adjust C83 it peaks out at 9.99907Mhz then drops again.
> What am I doing wrong? Thank you for your help
> Simon
>

2368. RE: [mkars80] Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-26 18:12:07 UTC
From: Simon McGraw
Topic: 2356 Message: 2368

Thanks a lot, and I am! (listening to Steve)

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Hasse
Sent: 26 January 2012 17:41
To: mkars80@...
Subject: [mkars80] Re: Unable to get BFO to 10.000Mhz

Hello agn Simon !

I`m sorry ab my answer.I was thingking of BITX20 and BITX 40, kits
that i also have built.There you set the BFO minus 3 or 5 KHz depending if
you work LSB or USB.Listen to Steve !!Once agn - sorry !
73 de sm6mpa/Hasse

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
"simonmcgraw@..." <simonmcgraw@...> wrote:
>
> Hi, I have been trying to set my BFO to 10.000MHz using a frequency
counter but as I adjust C83 it peaks out at 9.99907Mhz then drops again.
> What am I doing wrong? Thank you for your help
> Simon
>

[Non-text portions of this message have been removed]

2369. Re: [mkars80] LED and MIC Switch

Yahoo group: mkars80
Date: 2012-01-26 20:20:17 UTC
From: Steve Drury
Topic: 2352 Message: 2369

By popular request I have uploaded John's microphone wiring diagram to
the Etc. folder on the group.

Regards,

Steve G6ALU

On 24/01/2012 23:16, John wrote:
> Hi Steve.
>
> Following the diagram this morning I sent Frank a picture and
> description of the little box containing the PTT switch I made.
> It's just got a couple of stereo socket wired together and the switch
> shorts the 2 points when pressed, I did that so I could easily change
> the microphone and I have a few of the audio leads with stereo plugs
> fitted to go between the box& the radio kicking around.
>
> Hope you are keeping well.
>
> All the best,
> John.
>
>
> On 24/01/2012 20:41, Steve Drury wrote:
>> Frank, are you OK with Johns diagram?
>>
>> The LED should be OK if it lights, you won't cause any harm.
>>
>> Steve
>>
>> On 24/01/2012 05:15, John wrote:
>>> Hi Frank.
>>>
>>> Steve will be able to give the final word on the LED but looking at the
>>> resistor value feeding it and the zener I would say it's fine.
>>>
>>> I've enclosed a drawing I just did of the plug wiring but I doubt that
>>> it will come through to the group so a copy has been sent direct.
>>>
>>> I hope that's what you wanted.
>>>
>>> Regards,
>>> John.
>>>
>>> On 23/01/2012 23:44, Frank wrote:
>>>> Steve and others - Please help, I am a liberal arts guy.

>>>>
>>>> I had to purchase a new LED. Hoping this is suitable replacement which
>>>> is 3mm, Red, T-1 Size, 3 Volt, 15mA, 2.5mcd. Power dissipation is 45mW
>>>> and forward current is 15mA max.
>>>>
>>>> Can you send photo of how you suggest wiring up the mic switch? Thanks
>>>> very much.
>>>> Frank KD8FIP
>>>>
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>>> Yahoo! Groups Links
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>>> No virus found in this message.
>>> Checked by AVG - www.avg.com
>>> Version: 2012.0.1901 / Virus Database: 2109/4761 - Release Date:
>> 01/23/12
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4765 - Release Date: 01/25/12
>
>

2370. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 21:43:54 UTC
From: Frank MacDonell
Topic: 2358 Message: 2370

Thanks Ken. Just to confirm.....when you say braid to outer connection are
you referring to ground?
Frank KD8FIP

On Thu, Jan 26, 2012 at 8:19 AM, K.Greenough <g0wbm@...> wrote:

> Hello Frank,
> The braid on the coax' lead from your mic' should only go to
> the outer connection on the plug, the inner of the coax goes to
> the tip connection. Your push to talk switch should have one lead
> to the outer of the plug [you could take it to the braid at the mic'
> end of the cable] and the other lead from the switch goes to the
> connection on the plug for the band. If it still does not work, try
> an ohm meter across the leads from the PTT switch to check that
> there is no circuit when the switch is not pressed. I have seen some
> stereo plugs that were not standard in that the band was much longer than
> usual, this type of plug could short the band to ground without any other
> connection. Easily tested, just plug the plug without any wires into the
> socket, it should do nothing, if the set goes into transmit the plug is not
> suitable.
> 73 Ken g8beq
>
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> Yahoo! Groups Links
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--
Frank KD8FIP

[Non-text portions of this message have been removed]

2371. Re: Mic Selection

Yahoo group: mkars80
Date: 2012-01-26 22:26:28 UTC
From: ad6ka
Topic: 2342 Message: 2371

Frank:
Call me old fashioned, but I homebrewed
my MKARS mic with this electret element, a stereo
jumper using the braid as ground, and a mini N.O.
momentary button switch from Radio Shack, all in a plastic
project box from Radio Shack.

Element:
http://www.radioshack.com/product/index.jsp?productId=2062216
>>>RS Stock #270-092

Enclosure:
http://www.radioshack.com/product/index.jsp?productId=2062279
>>>RS Stock #270-1801 3"x2" x1"

"Mini" N.O.momentary Button Switch:
http://www.radioshack.com/product/index.jsp?productId=2062543
>>>RS Stock # 270-1556

I had the 1/8" stereo phono cable on hand.
They are not all made the same, sometimes the ring is too wide.

I Drilled holes for the element, switch and cable.
***For the element, drill small and widen with rat tail
file till snug. Do not use glue.****Observe Polarity!
The leads on this electret come in handy when wiring up.
A little open cell foam in project box will improve the sound.
***Use a cable tie or two on the cable
on the inside for strain relief.****
Good luck....you're almost there buddy!
73, Ken AD6KA
I can make one of these for you if you like.
Some of my friends laugh at it until they hear how good it sounds.

--- In mkars80@..., "Frank" <kd8fip@...> wrote:
>
> Can anyone recommend a good mic for the radio? Tnx in advance. This is a great group.
> Frank
> KD8FIP
>

2372. Radio Kits SWR Bridge/PWR Meter Kit

Yahoo group: mkars80
Date: 2012-01-26 22:34:43 UTC
From: ad6ka
Topic: 2372 Message: 2372

Has anyone encorporated one of these
kits into their MKARS80 or any other
QRP Project? I bought it and it looks
very nice but have not built it yet.

I was wondering how you liked it and if you
had any tips or experiences to share.
Because of the sorta unusual(non issue)
enclosure I want to use, I will be remoting **both**
the MKARS Frequency LCD Display AND the SWR/PWR Meter
LCD display, maybe with the meter's fwd/reverse sensing
board in a mini enclsoure inside the project for
RFI purposes.

TNX ES 73, Ken AD6KA/5R8GQ

Any and all experience with the Radio Kits

2373. Re: [mkars80] Almost Done

Yahoo group: mkars80
Date: 2012-01-26 22:36:05 UTC
From: K.Greenough
Topic: 2358 Message: 2373

Hello Frank,
Yes the braid goes to ground, so does one side of your PTT switch. The outer, or ground connection on the plug usually is far longer than the other two connections and often has fold overs at the top to clamp the cable. The tip connection is usually dead centre and the sleeve, or band, is inbetween.
73 Ken g8beq

[Non-text portions of this message have been removed]

2374. Re: [mkars80] LED and MIC Switch

Yahoo group: mkars80
Date: 2012-01-26 22:38:02 UTC
From: Ken Pendarvis
Topic: 2352 Message: 2374

Where on the page is the “Etc” folder?
TNX, Ken AD6KA

From: Steve Drury
Sent: Thursday, January 26, 2012 12:20 PM
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] LED and MIC Switch

By popular request I have uploaded John's microphone wiring diagram to
the Etc. folder on the group.

Regards,

Steve G6ALU

On 24/01/2012 23:16, John wrote:
> Hi Steve.
>
> Following the diagram this morning I sent Frank a picture and
> description of the little box containing the PTT switch I made.
> It's just got a couple of stereo socket wired together and the switch
> shorts the 2 points when pressed, I did that so I could easily change
> the microphone and I have a few of the audio leads with stereo plugs
> fitted to go between the box& the radio kicking around.
>
> Hope you are keeping well.
>
> All the best,
> John.
>
>
> On 24/01/2012 20:41, Steve Drury wrote:
>> Frank, are you OK with Johns diagram?
>>
>> The LED should be OK if it lights, you won't cause any harm.
>>
>> Steve
>>
>> On 24/01/2012 05:15, John wrote:
>>> Hi Frank.
>>>
>>> Steve will be able to give the final word on the LED but looking at the
>>> resistor value feeding it and the zener I would say it's fine.
>>>
>>> I've enclosed a drawing I just did of the plug wiring but I doubt that
>>> it will come through to the group so a copy has been sent direct.

>>>
>>> I hope that's what you wanted.
>>>
>>> Regards,
>>> John.
>>>
>>> On 23/01/2012 23:44, Frank wrote:
>>>> Steve and others - Please help, I am a liberal arts guy.
>>>>
>>>> I had to purchase a new LED. Hoping this is suitable replacement which
>>>> is 3mm, Red, T-1 Size, 3 Volt, 15mA, 2.5mcd. Power dissipation is 45mW
>>>> and forward current is 15mA max.
>>>>
>>>> Can you send photo of how you suggest wiring up the mic switch? Thanks
>>>> very much.
>>>> Frank KD8FIP
>>>>
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>>> No virus found in this message.
>>> Checked by AVG - www.avg.com
>>> Version: 2012.0.1901 / Virus Database: 2109/4761 - Release Date:
>> 01/23/12
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4765 - Release Date: 01/25/12
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[Non-text portions of this message have been removed]

2375. Re: [mkars80] LED and MIC Switch

Yahoo group: mkars80
Date: 2012-01-26 22:39:31 UTC
From: Steve Drury
Topic: 2352 Message: 2375

Try this link:

http://uk.groups.yahoo.com/group/mkars80/photos/album/1359308160/pic/list

Steve G6ALU

On 26/01/2012 22:38, Ken Pendarvis wrote:
> Where on the page is the “Etc” folder?
> TNX, Ken AD6KA
>
> From: Steve Drury
> Sent: Thursday, January 26, 2012 12:20 PM
> To: mkars80@...
> Subject: Re: [mkars80] LED and MIC Switch
>
>
> By popular request I have uploaded John's microphone wiring diagram to
> the Etc. folder on the group.
>
> Regards,
>
> Steve G6ALU
>
> On 24/01/2012 23:16, John wrote:
>> Hi Steve.
>>
>> Following the diagram this morning I sent Frank a picture and
>> description of the little box containing the PTT switch I made.
>> It's just got a couple of stereo socket wired together and the switch
>> shorts the 2 points when pressed, I did that so I could easily change
>> the microphone and I have a few of the audio leads with stereo plugs
>> fitted to go between the box& the radio kicking around.
>>
>> Hope you are keeping well.
>>
>> All the best,
>> John.
>>
>>
>> On 24/01/2012 20:41, Steve Drury wrote:
>>> Frank, are you OK with Johns diagram?
>>>
>>> The LED should be OK if it lights, you won't cause any harm.
>>>
>>> Steve
>>>

>>> On 24/01/2012 05:15, John wrote:
>>>> Hi Frank.
>>>>
>>>> Steve will be able to give the final word on the LED but looking at the
>>>> resistor value feeding it and the zener I would say it's fine.
>>>>
>>>> I've enclosed a drawing I just did of the plug wiring but I doubt that
>>>> it will come through to the group so a copy has been sent direct.
>>>>
>>>> I hope that's what you wanted.
>>>>
>>>> Regards,
>>>> John.
>>>>
>>>> On 23/01/2012 23:44, Frank wrote:
>>>>> Steve and others - Please help, I am a liberal arts guy.
>>>>>
>>>>> I had to purchase a new LED. Hoping this is suitable replacement which
>>>>> is 3mm, Red, T-1 Size, 3 Volt, 15mA, 2.5mcd. Power dissipation is 45mW
>>>>> and forward current is 15mA max.
>>>>>
>>>>> Can you send photo of how you suggest wiring up the mic switch? Thanks
>>>>> very much.
>>>>> Frank KD8FIP
>>>>>
>>>>>
>>>> [Non-text portions of this message have been removed]
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>>>> No virus found in this message.
>>>> Checked by AVG - www.avg.com
>>>> Version: 2012.0.1901 / Virus Database: 2109/4761 - Release Date:
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>> No virus found in this message.
>> Checked by AVG - www.avg.com
>> Version: 2012.0.1901 / Virus Database: 2109/4765 - Release Date: 01/25/12
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1901 / Virus Database: 2109/4767 - Release Date: 01/26/12
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2376. Re: Almost Done

Yahoo group: mkars80
Date: 2012-01-26 22:42:20 UTC
From: ad6ka
Topic: 2358 Message: 2376

Yes. The metal piece closest to the black
plastic sleeve on the phono plug is always ground,
always braid.
Ken AD6KA

--- In mkars80@....uk, Frank MacDonell <kd8fip@...> wrote:
>
> Thanks Ken. Just to confirm.....when you say braid to outer connection are
> you referring to ground?
> Frank KD8FIP
>
> On Thu, Jan 26, 2012 at 8:19 AM, K.Greenough <g0wbm@...> wrote:
>
> > Hello Frank,
> > The braid on the coax' lead from your mic' should only go to
> > the outer connection on the plug, the inner of the coax goes to
> > the tip connection. Your push to talk switch should have one lead
> > to the outer of the plug [you could take it to the braid at the mic'
> > end of the cable] and the other lead from the switch goes to the
> > connection on the plug for the band. If it still does not work, try
> > an ohm meter across the leads from the PTT switch to check that
> > there is no circuit when the switch is not pressed. I have seen some
> > stereo plugs that were not standard in that the band was much longer than
> > usual, this type of plug could short the band to ground without any other
> > connection. Easily tested, just plug the plug without any wires into the
> > socket, it should do nothing, if the set goes into transmit the plug is not
> > suitable.
> > 73 Ken g8beq
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> --
> Frank KD8FIP
>
>
> [Non-text portions of this message have been removed]
>

2377. Re: [mkars80] Radio Kits SWR Bridge/PWR Meter Kit

Yahoo group: mkars80
Date: 2012-01-26 23:04:02 UTC
From: John
Topic: 2372 Message: 2377

Hi Ken I built the kit.

The only problem I had was finding a suitable case plus the fact that whatever I wanted to build it into put the switches in an odd position. I ended up putting the LCD assembly in one box and the part with the SO239's in another.
The two are connected by a stereo lead, I always seem to have a few of those! The "sensor head" is in a die cast box and the readout has been modified so that the display lays parallel with the circuit board leaving the switches at the back.

It was a tight fit in the box I had but it all fitted and it's one with a built in battery compartment for what used to be called a PP3, I can never get my head around the new numbers!
The battery isn't really used because it's powered from the shack supply most of the time but the option is there.

Of course, as usual I can take photographs if anyone is interested!

Hope you are well Ken,
John.

On 26/01/2012 22:34, ad6ka wrote:
>
> Has anyone encorporated one of these
> kits into their MKARS80 or any other
> QRP Project? I bought it and it looks
> very nice but have not built it yet.
>
> I was wondering how you liked it and if you
> had any tips or experiences to share.
> Because of the sorta unusual(non issue)
> enclosure I want to use, I will be remoting **both**
> the MKARS Frequency LCD Display AND the SWR/PWR Meter
> LCD display, maybe with the meter's fwd/reverse sensing
> board in a mini enclsoure inside the project for
> RFI purposes.
>
> TNX ES 73, Ken AD6KA/5R8GQ
>
> Any and all experience with the Radio Kits
>
>

[Non-text portions of this message have been removed]

2378. Re: [mkars80] Radio Kits SWR Bridge/PWR Meter Kit

Yahoo group: mkars80
Date: 2012-01-27 04:02:02 UTC
From: Ken Pendarvis
Topic: 2372 Message: 2378

Thanks for sharing your experiences with the
SWR bridge, John.
Sounds like it came out well for you.
Though physically those switches have four leads,
on the schematic it looks like they close one line each
so I can substitute and remote single pole N.O. momentary
mini button switches.
Though I can see the advantage of having the sensor
box remoted from the LCD/Control box sitting on the desk.
TNX ES 73, Ken AD6KA

From: John
Sent: Thursday, January 26, 2012 3:04 PM
To: mkars80@...
Subject: Re: [mkars80] Radio Kits SWR Bridge/PWR Meter Kit

Hi Ken I built the kit.

The only problem I had was finding a suitable case plus the fact that
whatever I wanted to build it into put the switches in an odd position.
I ended up putting the LCD assembly in one box and the part with the
SO239's in another.
The two are connected by a stereo lead, I always seem to have a few of
those! The "sensor head" is in a die cast box and the readout has been
modified so that the display lays parallel with the circuit board
leaving the switches at the back.

It was a tight fit in the box I had but it all fitted and it's one with
a built in battery compartment for what used to be called a PP3, I can
never get my head around the new numbers!
The battery isn't really used because it's powered from the shack supply
most of the time but the option is there.

Of course, as usual I can take photographs if anyone is interested!

Hope you are well Ken,
John.

On 26/01/2012 22:34, ad6ka wrote:
>
> Has anyone encorporated one of these
> kits into their MKARS80 or any other
> QRP Project? I bought it and it looks
> very nice but have not built it yet.
>
> I was wondering how you liked it and if you
> had any tips or experiences to share.

> Because of the sorta unusual(non issue)
> enclosure I want to use, I will be remoting **both**
> the MKARS Frequency LCD Display AND the SWR/PWR Meter
> LCD display, maybe with the meter's fwd/reverse sensing
> board in a mini enclsoure inside the project for
> RFI purposes.
>
> TNX ES 73, Ken AD6KA/5R8GQ
>
> Any and all experience with the Radio Kits
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2379. Re: Almost Done

Yahoo group: mkars80
Date: 2012-01-27 04:48:26 UTC
From: Frank MacDonell
Topic: 2358 Message: 2379

Think I got it. Thanks to everybody for all the help. Need to complete page 13 for bias current and mixer balance and then I am good to go.

--
Frank KD8FIP

[Non-text portions of this message have been removed]

2380. Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-31 13:45:11 UTC
From: simonmcgraw@btinternet.com
Topic: 2356 Message: 2380

As there looked to be no problem with the components or the board, I borrowed a friends frequency counter and I could get the BFO to 10.000Mhz, it must have been my faulty frequency counter.
I will return the unused new parts to you Steve. Sorry for the inconvenience. Simon

--- In mkars80@yahoogroups.co.uk, Simon McGraw <simonmcgraw@...> wrote:
>
> Thanks a lot, and I am! (listening to Steve)
>
>
>
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Hasse
> Sent: 26 January 2012 17:41
> To: mkars80@...
> Subject: [mkars80] Re: Unable to get BFO to 10.000Mhz
>
>
>
>
>
> Hello agn Simon !
>
> I`m sorry ab my answer.I was thingking of BITX20 and BITX 40, kits
> that i also have built.There you set the BFO minus 3 or 5 KHz depending if
> you work LSB or USB.Listen to Steve !!Once agn - sorry !
> 73 de sm6mpa/Hasse
>
> --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
> "simonmcgraw@" <simonmcgraw@> wrote:
> >
> > Hi, I have been trying to set my BFO to 10.000MHz using a frequency
> counter but as I adjust C83 it peaks out at 9.99907Mhz then drops again.
> > What am I doing wrong? Thank you for your help
> > Simon
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

2381. Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-31 13:53:42 UTC
From: Hans-Göran Börjesson
Topic: 2356 Message: 2381

Hi Simon !

Fine that you solved the problem with yor friends counter.When you have his counter you maybe can adjust your own !!
73 de Hasse/sm6mpa

[Non-text portions of this message have been removed]

2382. RE: [mkars80] Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-31 13:57:40 UTC
From: Simon McGraw
Topic: 2356 Message: 2382

Yes, that would be thinking ahead ..but then which one is right?????

From: mkars80@... [mailto:mkars80@....uk] On Behalf
Of Hans-Göran Börjesson
Sent: 31 January 2012 13:54
To: mkars80@...
Subject: [mkars80] Re: Unable to get BFO to 10.000Mhz

Hi Simon !

Fine that you solved the problem with yor friends counter.When you have his
counter you maybe can adjust your own !!
73 de Hasse/sm6mpa

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2383. Re: [mkars80] Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-31 16:08:21 UTC
From: steve@radio-kits.co.uk
Topic: 2356 Message: 2383

On 31.01.2012 13:45, simonmcgraw@... wrote:
> As there looked to be no problem with the components or the board, I
> borrowed a friends frequency counter and I could get the BFO to
> 10.000Mhz, it must have been my faulty frequency counter.
> I will return the unused new parts to you Steve. Sorry for the
> inconvenience. Simon
>

Thanks for being honest Simon, please keep the parts - you might want
to build a calibration oscillator!!

Regards,
Steve G6ALU

2384. Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-01-31 22:06:23 UTC
From: Hasse
Topic: 2356 Message: 2384

Hello agn. Simon !

Probably your friends counter,the one that you meassured 10MHz with.
Use your counter and do the same meassurment and than set your
counter with the adj-trimmer in your set.As i understood your
counter shows about 3 KHz wrong !
What is your callsign anyway?
best 73 de sm6mpa/Hasse

--- In mkars80@..., Simon McGraw <simonmcgraw@...> wrote:
>
> Yes, that would be thinking ahead ..but then which one is right?????
>
>
>
> _____
>
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Hans-Göran Börjesson
> Sent: 31 January 2012 13:54
> To: mkars80@...
> Subject: [mkars80] Re: Unable to get BFO to 10.000Mhz
>
>
>
>
>
> Hi Simon !
>
> Fine that you solved the problem with yor friends counter.When you have his
> counter you maybe can adjust your own !!
> 73 de Hasse/sm6mpa
>
> [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
>

2385. RE: [mkars80] Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-02-01 08:45:34 UTC
From: Simon McGraw
Topic: 2356 Message: 2385

Hi Hasse

Yes I will recalibrate my counter

My call sign is M0SJM

Best wishes

Simon

_____

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Hasse
Sent: 31 January 2012 22:06
To: mkars80@...
Subject: [mkars80] Re: Unable to get BFO to 10.000Mhz

Hello agn. Simon !

Probably your friends counter,the one that you meassured 10MHz with.
Use your counter and do the same meassurment and than set your
counter with the adj-trimmer in your set.As i understood your
counter shows about 3 KHz wrong !
What is your callsign anyway?
best 73 de sm6mpa/Hasse

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
Simon McGraw <simonmcgraw@...> wrote:
>
> Yes, that would be thinking ahead ..but then which one is right?????
>
>
>
> _____
>
> From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>] On
Behalf
> Of Hans-Göran Börjesson
> Sent: 31 January 2012 13:54
> To: mkars80@yahoogroups.co.uk <mailto:mkars80%40yahoogroups.co.uk>
> Subject: [mkars80] Re: Unable to get BFO to 10.000Mhz
>
>
>
>

>
> Hi Simon !
>
> Fine that you solved the problem with yor friends counter.When you have
his
> counter you maybe can adjust your own !!
> 73 de Hasse/sm6mpa
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

2386. Re: [mkars80] Re: Unable to get BFO to 10.000Mhz

Yahoo group: mkars80
Date: 2012-02-01 10:57:32 UTC
From: F5mpw
Topic: 2356 Message: 2386

Hello!
Philippe F5MPW nr Rennes in France. I just started this morning with the MKARS 80 V3. Every components are in the bag1 no problem. I am soldering resistors. When all resistors will be solder, I send you a photo... good job with the weather!
All the best! Philippe
(excuse mistakesssss)

[Non-text portions of this message have been removed]

2387. MKARS80 CW Adaptor Kit for Sale

Yahoo group: mkars80
Date: 2012-02-03 14:28:15 UTC
From: ad6ka
Topic: 2387 Message: 2387

Howdy:

If any local hams are interested in getting the
CW Adaptor and don't want to wait for the
overseas Post, I have one for sale for $50
shipped US Mail, which is about exactly what
I paid for it with shipping and the exchange rate
at the time.

Please email, I'm good at QRZ.
TNX ES 73, Ken AD6KA

2388. Hello every body

Yahoo group: mkars80
Date: 2012-02-06 15:32:34 UTC
From: Foutel
Topic: 2388 Message: 2388

I am working on M KARS 80, I use pdf : V1-3 I hope it the right pdf... for the V3 ???? for big transfo, the good wire is red that is right???
TNX for a reply. 73 philippe F5MPW

2389. Re: [mkars80] Hello every body

Yahoo group: mkars80
Date: 2012-02-06 18:17:26 UTC
From: Steve Drury
Topic: 2388 Message: 2389

Yes 1.3 is correct, use the thickest wire for the big transformer - if
you are unable to wind it with this then the 27 SWG will work.

Regards,
Steve G6ALU

On 06/02/2012 15:32, Foutel wrote:
> I am working on M KARS 80, I use pdf : V1-3 I hope it the right pdf... for the V3 ????
for big transfo, the good wire is red that is right???
> TNX for a reply. 73 philippe F5MPW
>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4792 - Release Date: 02/06/12
>
>

2390. Re: [mkars80] Hello every body

Yahoo group: mkars80
Date: 2012-02-06 19:30:58 UTC
From: F5mpw
Topic: 2388 Message: 2390

Thank you Steve for reply soon. I hope the varnish is not damaged... there is no a "lot of place" in the core... ok for pdf.

Other thing, I think it's better to use a "demultiplication" for the VFO, I have one... (1:4)

I have pleasure to work on MKars 80 (a nice weather to do that : snow... and I am retired)

73 philippe F5MPW

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Monday, February 06, 2012 7:17 PM
Subject: Re: [mkars80] Hello every body

Yes 1.3 is correct, use the thickest wire for the big transformer - if
you are unable to wind it with this then the 27 SWG will work.

Regards,
Steve G6ALU

On 06/02/2012 15:32, Foutel wrote:
> I am working on M KARS 80, I use pdf : V1-3 I hope it the right pdf... for the V3 ????
for big transfo, the good wire is red that is right???
> TNX for a reply. 73 philippe F5MPW
>
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>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4792 - Release Date: 02/06/12
>
>

[Non-text portions of this message have been removed]

2391. A MKARS80 is waiting for a new owner

Yahoo group: mkars80
Date: 2012-02-09 19:51:44 UTC
From: c.gondard
Topic: 2391 Message: 2391

Hello
I have built a MKARS80 in 2007; it is integrated in a metallic box, and fully operationnal. I enjoy very much this design and its performances; I had many qso with it. But now I don't use it anymore and I am sure it will be more usefull for another OM.

You can have a look on it in the Photos directory (F6FTB album)
if you are interested please contact me directly to the email adress given on qrz.com

Best regards to all
73 de Chris / F6FTB

2392. New kit builder

Yahoo group: mkars80
Date: 2012-02-11 16:03:07 UTC
From: Andreas
Topic: 2392 Message: 2392

Hi there,

started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!

73 Andy DC3AFA

2393. Re: [mkars80] New kit builder

Yahoo group: mkars80
Date: 2012-02-11 16:28:05 UTC
From: Steve Drury
Topic: 2392 Message: 2393

Don't hurry it, take your time! That way you have a better chance of it
working first time...

Steve G6ALU

On 11/02/2012 16:03, Andreas wrote:
> Hi there,
>
> started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It?s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!
>
> 73 Andy DC3AFA
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4802 - Release Date: 02/10/12
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>
>

2394. RE: [mkars80] New kit builder

Yahoo group: mkars80
Date: 2012-02-11 16:31:46 UTC
From: Andrew Lenton (Jersey)
Topic: 2392 Message: 2394

Hi Take is slow and steady, allow time to wind the coils and triple check them before you solder them in, check orientation

Have Fun

73

Andrew G8UUG

From: mkars80@... [mailto:mkars80@yahoogroups.co.uk] On Behalf Of Andreas
Sent: 11 February 2012 16:03
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] New kit builder

Hi there,

started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!

73 Andy DC3AFA

[Non-text portions of this message have been removed]

2395. Re: [mkars80] New kit builder

Yahoo group: mkars80
Date: 2012-02-11 16:45:47 UTC
From: F5mpw
Topic: 2392 Message: 2395

Hello!
Take time, my MKARS 80 is finished but many time... many hours... But at the final, contact! and hop it's work without problem. It ok for RX... I can't try in TX because I need 2 transistors BC 547... (not enought in the bag!) I thing to buy this transistor in France. slowly dear freind!

73 philippe F5MPW

----- Original Message -----
From: Andreas
To: mkars80@...
Sent: Saturday, February 11, 2012 5:03 PM
Subject: [mkars80] New kit builder

Hi there,

started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!

73 Andy DC3AFA

[Non-text portions of this message have been removed]

2396. Re: [mkars80] New kit builder

Yahoo group: mkars80
Date: 2012-02-11 16:53:38 UTC
From: F5mpw
Topic: 2392 Message: 2396

Hello Andrew, I hope to contact you from Montreuil sur Ille (near St-Malo) with our Mkars 80! But I have to test my rig in TX...
73 philippe F5MPW

----- Original Message -----
From: Andrew Lenton (Jersey)
To: mkars80@...
Sent: Saturday, February 11, 2012 5:31 PM
Subject: RE: [mkars80] New kit builder

Hi Take is slow and steady, allow time to wind the coils and triple check them before you solder them in, check orientation

Have Fun

73

Andrew G8UUG

From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf Of Andreas
Sent: 11 February 2012 16:03
To: mkars80@...
Subject: [mkars80] New kit builder

Hi there,

started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!

73 Andy DC3AFA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2397. Re: [mkars80] New kit builder

Yahoo group: mkars80
Date: 2012-02-11 18:05:25 UTC
From: Steve Drury
Topic: 2392 Message: 2397

Send me your address Philippe and I will post you some Monday.

Regards,
Steve G6ALU

On 11/02/2012 16:45, F5mpw wrote:
> Hello!
> Take time, my MKARS 80 is finished but many time... many hours... But at the final, contact! and hop it's work without problem. It ok for RX... I can't try in TX because I need 2 transistors BC 547... (not enought in the bag!) I thing to buy this transistor in France. slowly dear freind!
>
> 73 philippe F5MPW
>
>
> ----- Original Message -----
> From: Andreas
> To: mkars80@...
> Sent: Saturday, February 11, 2012 5:03 PM
> Subject: [mkars80] New kit builder
>
>
>
> Hi there,
>
> started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It?s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!
>
> 73 Andy DC3AFA
>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4802 - Release Date: 02/10/12
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>
>

2398. my adress

Yahoo group: mkars80
Date: 2012-02-11 18:54:33 UTC
From: F5mpw
Topic: 2398 Message: 2398

Thank you Steve, my adress is:

Ph. Foutel
32, rue du clos gérard
35440 Montreuil sur ille
FRANCE.

Excellent RX, I hope no pb with TX, I have a doub with transfo T2.... we will see soon.
this is a photo to test the enclosure with a box of soap... Now I can use the metal enclosure... I am waiting a friend of me to cut the window with a machine...
excuse my English!
73 Philippe

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Saturday, February 11, 2012 7:05 PM
Subject: Re: [mkars80] New kit builder

Send me your address Philippe and I will post you some Monday.

Regards,
Steve G6ALU

On 11/02/2012 16:45, F5mpw wrote:
> Hello!
> Take time, my MKARS 80 is finished but many time... many hours... But at the final, contact! and hop it's work without problem. It ok for RX... I can't try in TX because I need 2 transistors BC 547... (not enought in the bag!) I thing to buy this transistor in France. slowly dear freind!
>
> 73 philippe F5MPW
>
>
> ----- Original Message -----
> From: Andreas
> To: mkars80@...
> Sent: Saturday, February 11, 2012 5:03 PM
> Subject: [mkars80] New kit builder
>
>
>
> Hi there,
>
> started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!

>
> 73 Andy DC3AFA
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4802 - Release Date: 02/10/12
>
>
>

[Non-text portions of this message have been removed]

2399. RE: [mkars80] New kit builder

Yahoo group: mkars80
Date: 2012-02-12 12:23:44 UTC
From: Andrew Lenton (Jersey)
Topic: 2392 Message: 2399

Hi Philippe,

Listen on 3.71 MHz at 18:30 to 19:00 GMT the net will give you a report from all over the UK, as it is dark this time of year propagation will favour you

73

Andrew

From: mkars80@... [mailto:mkars80@...] On Behalf
Of F5mpw
Sent: 11 February 2012 16:54
To: mkars80@...
Subject: Re: [mkars80] New kit builder

Hello Andrew, I hope to contact you from Montreuil sur Ille (near St-Malo) with our Mkars 80! But I have to test my rig in TX...
73 philippe F5MPW

----- Original Message -----
From: Andrew Lenton (Jersey)
To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
Sent: Saturday, February 11, 2012 5:31 PM
Subject: RE: [mkars80] New kit builder

Hi Take is slow and steady, allow time to wind the coils and triple check them before you solder them in, check orientation

Have Fun

73

Andrew G8UUG

From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>] On
Behalf
Of Andreas
Sent: 11 February 2012 16:03
To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
Subject: [mkars80] New kit builder

Hi there,

started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!

73 Andy DC3AFA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2400. Re: [mkars80] my adress

Yahoo group: mkars80
Date: 2012-02-12 14:17:40 UTC
From: Steve Drury
Topic: 2398 Message: 2400

OK Philippe, some will be posted tomorrow.

Regards,
Steve G6ALU

On 11/02/2012 18:54, F5mpw wrote:
> Thank you Steve, my adress is:
>
> Ph. Foutel
> 32, rue du clos g?rard
> 35440 Montreuil sur ille
> FRANCE.
>
> Excellent RX, I hope no pb with TX, I have a doub with transfo T2.... we will see soon.
> this is a photo to test the enclosure with a box of soap... Now I can use the metal enclosure... I am waiting a friend of me to cut the window with a machine...
> excuse my English!
> 73 Philippe
>
>
>
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Saturday, February 11, 2012 7:05 PM
> Subject: Re: [mkars80] New kit builder
>
>
>
> Send me your address Philippe and I will post you some Monday.
>
> Regards,
> Steve G6ALU
>
> On 11/02/2012 16:45, F5mpw wrote:
> > Hello!
> > Take time, my MKARS 80 is finished but many time... many hours... But at the final, contact! and hop it's work without problem. It ok for RX... I can't try in TX because I need 2 transistors BC 547... (not enought in the bag!) I thing to buy this transistor in France. slowly dear freind!
> >
> > 73 philippe F5MPW
> >

> >
> > ----- Original Message -----
> > From: Andreas
> > To: mkars80@...
> > Sent: Saturday, February 11, 2012 5:03 PM
> > Subject: [mkars80] New kit builder
> >
> >
> >
> > Hi there,
> >
> > started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It?s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!
> >
> > 73 Andy DC3AFA
> >
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2112/4802 - Release Date: 02/10/12
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> Yahoo! Groups Links

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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4803 - Release Date: 02/11/12
>
>
>

2401. Re: [mkars80] net?

Yahoo group: mkars80
Date: 2012-02-12 18:15:57 UTC
From: Michael Meerman
Topic: 2398 Message: 2401

Is there a frequency and/or time to meet and talk?
Mine is working okay but I have some problems actually making a contact

73

Michael
M0MPM

Sent from my iPhone

On 12 Feb 2012, at 15:17, Steve Drury <steve@...> wrote:

> OK Philippe, some will be posted tomorrow.
>
> Regards,
> Steve G6ALU
>
> On 11/02/2012 18:54, F5mpw wrote:
> > Thank you Steve, my adress is:
> >
> > Ph. Foutel
> > 32, rue du clos gérard
> > 35440 Montreuil sur ille
> > FRANCE.
> >
> > Excellent RX, I hope no pb with TX, I have a doub with transfo T2.... we will see soon.
> > this is a photo to test the enclosure with a box of soap... Now I can use the metal enclosure... I am waiting a friend of me to cut the window with a machine...
> > excuse my English!
> > 73 Philippe
> >
> >
> >
> >
> >
> > ----- Original Message -----
> > From: Steve Drury
> > To: mkars80@...
> > Sent: Saturday, February 11, 2012 7:05 PM
> > Subject: Re: [mkars80] New kit builder
> >
> >
> >
> >
> > Send me your address Philippe and I will post you some Monday.
> >
> > Regards,

> > Steve G6ALU
> >
> > On 11/02/2012 16:45, F5mpw wrote:
> > > Hello!
> > > Take time, my MKARS 80 is finished but many time... many hours... But at the final, contact! and hop it's work without problem. It ok for RX... I can't try in TX because I need 2 transistors BC 547... (not enought in the bag!) I thing to buy this transistor in France. slowly dear freind!
> > >
> > > 73 philippe F5MPW
> > >
> > >
> > > ----- Original Message -----
> > > From: Andreas
> > > To: mkars80@...
> > > Sent: Saturday, February 11, 2012 5:03 PM
> > > Subject: [mkars80] New kit builder
> > >
> > >
> > >
> > > Hi there,
> > >
> > > started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!
> > >
> > > 73 Andy DC3AFA
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> > > [Non-text portions of this message have been removed]
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> > > No virus found in this message.
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> > > Version: 2012.0.1913 / Virus Database: 2112/4802 - Release Date: 02/10/12
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> > [Non-text portions of this message have been removed]
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> > -----
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> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2112/4803 - Release Date: 02/11/12
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> >
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[Non-text portions of this message have been removed]

2402. Re: New kit builder

Yahoo group: mkars80
Date: 2012-02-13 05:35:40 UTC
From: Andreas
Topic: 2392 Message: 2402

Finished bag no. 3 yesterday. Winding coils seems not as difficult as I have thought before.
But we will see ;-)

73 Andy DC3AFA

2403. Re: [mkars80] Re: New kit builder

Yahoo group: mkars80
Date: 2012-02-13 10:52:11 UTC
From: F5mpw
Topic: 2392 Message: 2403

We are not in a "hurry" (correct?) for me about 31 hours I walked very slowly...
This afternoon I am looking for transistors and try TX... I prepared microphone and swich... Every morning I listen 80m with it.
73 ph F5MPW

----- Original Message -----
From: Andreas
To: mkars80@...
Sent: Monday, February 13, 2012 6:35 AM
Subject: [mkars80] Re: New kit builder

Finished bag no. 3 yesterday. Winding coils seems not as difficult as I have thought before.
But we will see ;-)

73 Andy DC3AFA

[Non-text portions of this message have been removed]

2404. Re: [mkars80] New kit builder

Yahoo group: mkars80
Date: 2012-02-13 10:56:17 UTC
From: F5mpw
Topic: 2392 Message: 2404

TNX for frq! A qso direct in English (slowly) Mkars to Mkars, will be funny no?

All the best!

73 ph
F5MPW

----- Original Message -----
From: Andrew Lenton (Jersey)
To: mkars80@...
Sent: Sunday, February 12, 2012 1:23 PM
Subject: RE: [mkars80] New kit builder

Hi Philippe,

Listen on 3.71 MHz at 18:30 to 19:00 GMT the net will give you a report from all over the UK, as it is dark this time of year propagation will favour you

73

Andrew

From: mkars80@... [mailto:mkars80@...] On Behalf Of F5mpw
Sent: 11 February 2012 16:54
To: mkars80@...
Subject: Re: [mkars80] New kit builder

Hello Andrew, I hope to contact you from Montreuil sur Ille (near St-Malo) with our Mkars 80! But I have to test my rig in TX...
73 philippe F5MPW

----- Original Message -----
From: Andrew Lenton (Jersey)
To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
Sent: Saturday, February 11, 2012 5:31 PM
Subject: RE: [mkars80] New kit builder

Hi Take is slow and steady, allow time to wind the coils and triple check them before you solder them in, check orientation

Have Fun

73

Andrew G8UUG

From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk> [mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>] On

Behalf
Of Andreas
Sent: 11 February 2012 16:03
To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
Subject: [mkars80] New kit builder

Hi there,

started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!

73 Andy DC3AFA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2405. PC microphone with on/off switch and stereo plug

Yahoo group: mkars80
Date: 2012-02-13 12:38:59 UTC
From: johncronhelm
Topic: 2405 Message: 2405

Does anyone know if this would be wired according to Steve's diagram
John VO1JCC.

2406. Re: [mkars80] PC microphone with on/off switch and stereo plug

Yahoo group: mkars80
Date: 2012-02-13 14:46:02 UTC
From: John
Topic: 2405 Message: 2406

Hi John.

I think a commercial microphone with an on/off switch actually
disconnects the microphone to mute it and isn't meant to control anything.

There used to be, many years ago, microphones which had a switch used
for pausing a tape recorder but they were fitted with plugs for specific
recorders and I don't think they were electrets.

It may be possible to modify the switch connections though.

Regards,
John.

On 13/02/2012 12:38, johncronhelm wrote:
>
> Does anyone know if this would be wired according to Steve's diagram
> John VO1JCC.
>
>

[Non-text portions of this message have been removed]

2407. Re: PC microphone with on/off switch and stereo plug

Yahoo group: mkars80
Date: 2012-02-13 14:55:45 UTC
From: johncronhelm
Topic: 2405 Message: 2407

Thanks John, that answers my question.When I put my meter on the plug
what you said seems to be confirmed. Better rewire it!
Many thanks again, John.

--- In mkars80@..., John <john@...> wrote:
>
> Hi John.
>
> I think a commercial microphone with an on/off switch actually
> disconnects the microphone to mute it and isn't meant to control anything.
>
> There used to be, many years ago, microphones which had a switch used
> for pausing a tape recorder but they were fitted with plugs for specific
> recorders and I don't think they were electrets.
>
> It may be possible to modify the switch connections though.
>
> Regards,
> John.
>
> On 13/02/2012 12:38, johncronhelm wrote:
> >
> > Does anyone know if this would be wired according to Steve's diagram
> > John VO1JCC.
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

2408. Re: [mkars80] Re: PC microphone with on/off switch and stereo plug

Yahoo group: mkars80
Date: 2012-02-13 15:09:34 UTC
From: John
Topic: 2405 Message: 2408

Hi John.
The only problem I can really see is that perhaps on a mono microphone
they may not have used 3 core (2 + Screen) cable which would mean that
you may not have access to the 3rd pin of the plug.

I don't know if that's likely but it's possible!

Good luck,
John.

On 13/02/2012 14:55, johncronhelm wrote:
>
> Thanks John, that answers my question.When I put my meter on the plug
> what you said seems to be confirmed. Better rewire it!
> Many thanks again, John.
>
> --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk>,
> John <john@...> wrote:
> >
> > Hi John.
> >
> > I think a commercial microphone with an on/off switch actually
> > disconnects the microphone to mute it and isn't meant to control
> anything.
> >
> > There used to be, many years ago, microphones which had a switch used
> > for pausing a tape recorder but they were fitted with plugs for
> specific
> > recorders and I don't think they were electrets.
> >
> > It may be possible to modify the switch connections though.
> >
> > Regards,
> > John.
> >
> > On 13/02/2012 12:38, johncronhelm wrote:
> > >
> > > Does anyone know if this would be wired according to Steve's diagram
> > > John VO1JCC.
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
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>

>

[Non-text portions of this message have been removed]

2409. Re: New kit builder

Yahoo group: mkars80
Date: 2012-02-13 21:08:27 UTC
From: Andreas
Topic: 2392 Message: 2409

Finished bag no. 4 but two transistors missing...
Should have been 16 x BC547. Only 14 in the bag :-(
Will get the missing two tomorrow

73 Andy DC3AFA

2410. Re: [mkars80] net?

Yahoo group: mkars80
Date: 2012-02-13 21:14:41 UTC
From: DAVID CLENCH
Topic: 2398 Message: 2410

Hi Micheal

There used to be semi regular nets on Sunday mornings at around 0900-0930 on 3.690 +- qrm. Its worth calling on this frequency. If I hear you calling I will certainly reply.

I will try and listen/call around that time and frequency.

73 Dave G0BVV

From: Michael Meerman <mljmeerman@...>
To: "mkars80@..." <mkars80@...>
Cc: "mkars80@..." <mkars80@yahoogroups.co.uk>
Sent: Sunday, 12 February 2012, 18:15
Subject: Re: [mkars80] net?

Is there a frequency and/or time to meet and talk?
Mine is working okay but I have some problems actually making a contact

73

Michael
M0MPM

Sent from my iPhone

On 12 Feb 2012, at 15:17, Steve Drury <steve@...> wrote:

> OK Philippe, some will be posted tomorrow.
>
> Regards,
> Steve G6ALU
>
> On 11/02/2012 18:54, F5mpw wrote:
> > Thank you Steve, my adress is:
> >
> > Ph. Foutel
> > 32, rue du clos gérard
> > 35440 Montreuil sur ille
> > FRANCE.
> >
> > Excellent RX, I hope no pb with TX, I have a doub with transfo T2.... we will see soon.
> > this is a photo to test the enclosure with a box of soap... Now I can use the metal enclosure... I am waiting a friend of me to cut the window with a machine...
> > excuse my English!
> > 73 Philippe
> >

> >
> >
> >
> >
> > ----- Original Message -----
> > From: Steve Drury
> > To: mkars80@....uk
> > Sent: Saturday, February 11, 2012 7:05 PM
> > Subject: Re: [mkars80] New kit builder
> >
> >
> >
> > Send me your address Philippe and I will post you some Monday.
> >
> > Regards,
> > Steve G6ALU
> >
> > On 11/02/2012 16:45, F5mpw wrote:
> > > Hello!
> > > Take time, my MKARS 80 is finished but many time... many hours... But at the final, contact! and hop it's work without problem. It ok for RX... I can't try in TX because I need 2 transistors BC 547... (not enought in the bag!) I thing to buy this transistor in France. slowly dear freind!
> > >
> > > 73 philippe F5MPW
> > >
> > >
> > > ----- Original Message -----
> > > From: Andreas
> > > To: mkars80@yahoogroups.co.uk
> > > Sent: Saturday, February 11, 2012 5:03 PM
> > > Subject: [mkars80] New kit builder
> > >
> > >
> > >
> > > Hi there,
> > >
> > > started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!
> > >
> > > 73 Andy DC3AFA
> > >
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> > > [Non-text portions of this message have been removed]
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> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1913 / Virus Database: 2112/4802 - Release Date: 02/10/12
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[Non-text portions of this message have been removed]

2411. Re: [mkars80] Re: New kit builder

Yahoo group: mkars80
Date: 2012-02-13 21:37:53 UTC
From: Steve Drury
Topic: 2392 Message: 2411

Not doing too well with transistors, do you want me to send you a couple?

Steve G6ALU

On 13/02/2012 21:08, Andreas wrote:
> Finished bag no. 4 but two transistors missing...
> Should have been 16 x BC547. Only 14 in the bag :-(
> Will get the missing two tomorrow
>
> 73 Andy DC3AFA
>
>
>
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>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4807 - Release Date: 02/13/12
>
>

2412. Re: New kit builder

Yahoo group: mkars80
Date: 2012-02-13 21:44:28 UTC
From: Andreas
Topic: 2392 Message: 2412

Don´t worry about it, Steve. I´ll get some in the local Conrad store here in Stuttgart. Just a question: they seem to have two different types of BC547B, one with .1A and the other with .2A collector current. Which one should I take?

73 Andy DC3AFA

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Not doing too well with transistors, do you want me to send you a couple?
>
> Steve G6ALU
>
> On 13/02/2012 21:08, Andreas wrote:
> > Finished bag no. 4 but two transistors missing...
> > Should have been 16 x BC547. Only 14 in the bag :-(
> > Will get the missing two tomorrow
> >
> > 73 Andy DC3AFA
> >
> >
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> > Yahoo! Groups Links
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> > No virus found in this message.
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> > Version: 2012.0.1913 / Virus Database: 2112/4807 - Release Date: 02/13/12
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>

2413. Re: [mkars80] Re: New kit builder

Yahoo group: mkars80
Date: 2012-02-13 22:14:41 UTC
From: Steve Drury
Topic: 2392 Message: 2413

I don't know of two different types, perhaps they are different makes -
the 0.1A type should do fine.

I checked my current batch of kits and they are correct.

Regards,
Steve G6ALU

On 13/02/2012 21:44, Andreas wrote:
> Don?t worry about it, Steve. I?ll get some in the local Conrad store here in Stuttgart.
> Just a question: they seem to have two different types of BC547B, one with .1A and the
other with .2A collector current. Which one should I take?
>
> 73 Andy DC3AFA
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> Not doing too well with transistors, do you want me to send you a couple?
>>
>> Steve G6ALU
>>
>> On 13/02/2012 21:08, Andreas wrote:
>>> Finished bag no. 4 but two transistors missing...
>>> Should have been 16 x BC547. Only 14 in the bag :-(
>>> Will get the missing two tomorrow
>>>
>>> 73 Andy DC3AFA
>>>
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2414. mkars80 knob power losted

Yahoo group: mkars80
Date: 2012-02-14 17:15:00 UTC
From: F5mpw
Topic: 2414 Message: 2414

Hello Steve!
A very good thing for the Mkars 80 is a VFO with a reduce speed knob. I try and can adjust on station without tune fine...
I think I have a pb around filter quartz... because I lost power in.... (for TX)- I am not sur of my transfo T2 (perhaps short circut)...?
All the best 73 philippe F5MPW

[Non-text portions of this message have been removed]

2415. Polyvaricon values.

Yahoo group: mkars80
Date: 2012-02-14 17:34:09 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 2415 Message: 2415

Hi Steve et al.

This is probably a really stupid question but I have been given and am rebuilding a very poorly built and mistreated MKARS80.

The original polyvaricon tuning cap is actually melted (due to unbelievably bad soldering by the previous owner)

I can't see the values for the part on the circuit diagram but I have some that look physically identical to the ones used in my own MKARS80s, even down to being the same make.

The parts I have in my workshop measure in at 66/152pf per section maximum capacitance.

I don't want to pull my own MKARS80s apart to measure the caps in them and don't want to fit my new one into this board without being pretty certain it's the right value as the track on the board is pretty dire from poor, over heated soldering.

So I wonder if you can tell me what the intended values are please.

Many thanks

Slim G4IPZ

2416. Re: [mkars80] net?

Yahoo group: mkars80
Date: 2012-02-14 18:18:26 UTC
From: Michael Meerman
Topic: 2398 Message: 2416

Dave, sounds like a good idea!
This Sunday I'm not at home though but I made a note and will try the Sunday(s) after.
My reception is excellent, but I only made 2 qso's so far, one with a nearby station just to test and one random with marginal signals.
So thanks for the info and hope to work you, and others!

73's

Michael MoMPM

Sent from my iPhone

On 13 Feb 2012, at 22:14, DAVID CLENCH <david.clench@...> wrote:

> Hi Micheal
>
> There used to be semi regular nets on Sunday mornings at around 0900-0930 on 3.690 +- qrm. Its worth calling on this frequency. If I hear you calling I will certainly reply.
>
> I will try and listen/call around that time and frequency.
>
> 73 Dave G0BVV
>
> _____
> From: Michael Meerman <mljmeerman@...>
> To: "mkars80@....uk" <mkars80@...>
> Cc: "mkars80@..." <mkars80@...>
> Sent: Sunday, 12 February 2012, 18:15
> Subject: Re: [mkars80] net?
>
>
>
> Is there a frequency and/or time to meet and talk?
> Mine is working okay but I have some problems actually making a contact
>
> 73
>
> Michael
> M0MPM
>
> Sent from my iPhone
>
> On 12 Feb 2012, at 15:17, Steve Drury <steve@...> wrote:
>
> > OK Philippe, some will be posted tomorrow.
> >

> > Regards,
> > Steve G6ALU
> >
> > On 11/02/2012 18:54, F5mpw wrote:
> > > Thank you Steve, my adress is:
> > >
> > > Ph. Foutel
> > > 32, rue du clos gérard
> > > 35440 Montreuil sur ille
> > > FRANCE.
> > >
> > > Excellent RX, I hope no pb with TX, I have a doub with transfo T2.... we will see soon.
> > > this is a photo to test the enclosure with a box of soap... Now I can use the metal enclosure... I am waiting a friend of me to cut the window with a machine...
> > > excuse my English!
> > > 73 Philippe
> > >
> > >
> > >
> > >
> > >
> > > ----- Original Message -----
> > > From: Steve Drury
> > > To: mkars80@yahoogroups.co.uk
> > > Sent: Saturday, February 11, 2012 7:05 PM
> > > Subject: Re: [mkars80] New kit builder
> > >
> > >
> > >
> > > Send me your address Philippe and I will post you some Monday.
> > >
> > > Regards,
> > > Steve G6ALU
> > >
> > > On 11/02/2012 16:45, F5mpw wrote:
> > > > Hello!
> > > > Take time, my MKARS 80 is finished but many time... many hours... But at the final, contact! and hop it's work without problem. It ok for RX... I can't try in TX because I need 2 transistors BC 547... (not enought in the bag!) I thing to buy this transistor in France. slowly dear freind!
> > > >
> > > > 73 philippe F5MPW
> > > >
> > > >
> > > > ----- Original Message -----
> > > > From: Andreas
> > > > To: mkars80@...
> > > > Sent: Saturday, February 11, 2012 5:03 PM
> > > > Subject: [mkars80] New kit builder

> > > >
> > > >
> > > >
> > > > Hi there,
> > > >
> > > > started building the MKARS80 today on 11 am. Finished with bag 2 on 4 pm. It´s my biggest kit until now. Looking forward on continuing tomorrow. Nice kit!
> > > >
> > > > 73 Andy DC3AFA
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[Non-text portions of this message have been removed]

2417. Re: [mkars80] Polyvaricon values.

Yahoo group: mkars80
Date: 2012-02-14 18:31:42 UTC
From: John
Topic: 2415 Message: 2417

Hi Slim

I'm sure Steve will be along shortly but just out of interest the varicap mod is usually based around the MVAM109 which has a range from around 20 to about 450pf so that will give you an idea.

How about converting it to varicap tuning? Using a 10 turn pot would give a good bandspread.

All the best,
John.

On 14/02/2012 17:34, Naqoyqatsi (aka the ICM) wrote:
>
> Hi Steve et al.
>
> This is probably a really stupid question but I have been given and am
> rebuilding a very poorly built and mistreated MKARS80.
>
> The original polyvaricon tuning cap is actually melted (due to
> unbelievably bad soldering by the previous owner)
>
> I can't see the values for the part on the circuit diagram but I have
> some that look physically identical to the ones used in my own
> MKARS80s, even down to being the same make.
>
> The parts I have in my workshop measure in at 66/152pf per section
> maximum capacitance.
>
> I don't want to pull my own MKARS80s apart to measure the caps in them
> and don't want to fit my new one into this board without being pretty
> certain it's the right value as the track on the board is pretty dire
> from poor, over heated soldering.
>
> So I wonder if you can tell me what the intended values are please.
>
> Many thanks
>
> Slim G4IPZ
>
>

[Non-text portions of this message have been removed]

2418. Re: [mkars80] Polyvaricon values.

Yahoo group: mkars80
Date: 2012-02-14 20:41:14 UTC
From: Steve Drury
Topic: 2415 Message: 2418

Capacitance is:

Antenna capacitance 3.0 - 141.6pF
Oscillator capacitance 4.0 - 59.2pF

So yes it looks like the same type.

Regards,
Steve G6ALU

On 14/02/2012 17:34, Naqoyqatsi (aka the ICM) wrote:
> Hi Steve et al.
>
> This is probably a really stupid question but I have been given and am rebuilding a very poorly built and mistreated MKARS80.
>
> The original polyvaricon tuning cap is actually melted (due to unbelievably bad soldering by the previous owner)
>
> I can't see the values for the part on the circuit diagram but I have some that look physically identical to the ones used in my own MKARS80s, even down to being the same make.
>
> The parts I have in my workshop measure in at 66/152pf per section maximum capacitance.
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> I don't want to pull my own MKARS80s apart to measure the caps in them and don't want to fit my new one into this board without being pretty certain it's the right value as the track on the board is pretty dire from poor, over heated soldering.
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> So I wonder if you can tell me what the intended values are please.
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> Many thanks
>
>
> Slim G4IPZ
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4807 - Release Date: 02/13/12
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[Non-text portions of this message have been removed]

2419. Re: [mkars80] mkars80 knob power losted

Yahoo group: mkars80
Date: 2012-02-14 20:57:40 UTC
From: Steve Drury
Topic: 2414 Message: 2419

Philippe,

What current does it draw in transmit?

Steve G6ALU

On 14/02/2012 17:15, F5mpw wrote:
> Hello Steve!
> A very good thing for the Mkars 80 is a VFO with a reduce speed knob. I try and can adjust on station without tune fine...
> I think I have a pb around filter quartz... because I lost power in.... (for TX)- I am not sur of my transfo T2 (perhaps short circut)...?
> All the best 73 philippe F5MPW
>
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> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4807 - Release Date: 02/13/12
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2420. Re: [mkars80] mkars80 knob power losted

Yahoo group: mkars80
Date: 2012-02-14 21:01:30 UTC
From: F5mpw
Topic: 2414 Message: 2420

Ok Steve, about 250 - 270 ma
Phililppe F5MPW

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, February 14, 2012 9:57 PM
Subject: Re: [mkars80] mkars80 knob power losted

Philippe,

What current does it draw in transmit?

Steve G6ALU

On 14/02/2012 17:15, F5mpw wrote:
> Hello Steve!
> A very good thing for the Mkars 80 is a VFO with a reduce speed knob. I try and can adjust on station without tune fine...
> I think I have a pb around filter quartz... because I lost power in.... (for TX)- I am not sur of my transfo T2 (perhaps short circut)...?
> All the best 73 philippe F5MPW
>
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4807 - Release Date: 02/13/12
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[Non-text portions of this message have been removed]

2421. Re: [mkars80] mkars80 knob power losted

Yahoo group: mkars80
Date: 2012-02-14 21:17:16 UTC
From: Steve Drury
Topic: 2414 Message: 2421

Is this current after the TX bias has been adjusted?

Steve G6ALU

On 14/02/2012 21:01, F5mpw wrote:
> Ok Steve, about 250 - 270 ma
> Phililppe F5MPW
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Tuesday, February 14, 2012 9:57 PM
> Subject: Re: [mkars80] mkars80 knob power losted
>
>
>
> Philippe,
>
> What current does it draw in transmit?
>
> Steve G6ALU
>
> On 14/02/2012 17:15, F5mpw wrote:
> > Hello Steve!
> > A very good thing for the Mkars 80 is a VFO with a reduce speed knob. I try and can adjust on station without tune fine...
> > I think I have a pb around filter quartz... because I lost power in.... (for TX)- I am not sur of my transfo T2 (perhaps short circut)...?
> > All the best 73 philippe F5MPW
> >
> >
> > [Non-text portions of this message have been removed]
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2112/4807 - Release Date: 02/13/12
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date: 02/14/12
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>

2422. Re: Polyvaricon values.

Yahoo group: mkars80
Date: 2012-02-14 21:25:51 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 2415 Message: 2422

Hi Steve.
Thanks for the information
As its physically identical so, allowing for component spread and meter tolerance on my measuring the values they must be the same beast.

To John, I can't really do the conversion to this rig as it's not my MKARS80. It belongs to someone who got caught by buying it at a rally off of a flea market stall I think it was. They were assured it worked and, of course it most certainly doesn't.

I have a feeling I may have made a rod for my own back in offering to look at it but we can but see. I had to clean up probably 50% of the soldering and several pieces of track have been patched already. The only good news is that the display is undamaged as I tested it on something else and it works. Surprisingly the toroids all seem well wound but I've found a couple of broken wires on the binocular bead coils that I was able to pick up and remake.

Some people just shouldn't try building kits even when the instructions are as good as those for the MKARS80.

Slim Haines G4IPZ

2423. Re: New kit builder

Yahoo group: mkars80
Date: 2012-02-14 21:28:44 UTC
From: Andreas
Topic: 2392 Message: 2423

Smoke test done :)
http://www.youtube.com/watch?v=AMaLMFgk6vc

73 Andy DC3AFA

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> I don't know of two different types, perhaps they are different makes -
> the 0.1A type should do fine.
>
> I checked my current batch of kits and they are correct.
>
> Regards,
> Steve G6ALU
>
> On 13/02/2012 21:44, Andreas wrote:
> > Don´t worry about it, Steve. I´ll get some in the local Conrad store here in Stuttgart.
> > Just a question: they seem to have two different types of BC547B, one with .1A and the
other with .2A collector current. Which one should I take?
> >
> > 73 Andy DC3AFA
> >
> > --- In mkars80@..., Steve Drury<steve@> wrote:
> >> Not doing too well with transistors, do you want me to send you a couple?
> >>
> >> Steve G6ALU
> >>
> >> On 13/02/2012 21:08, Andreas wrote:
> >>> Finished bag no. 4 but two transistors missing...
> >>> Should have been 16 x BC547. Only 14 in the bag :-(
> >>> Will get the missing two tomorrow
> >>>
> >>> 73 Andy DC3AFA
> >>>
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> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 2012.0.1913 / Virus Database: 2112/4807 - Release Date: 02/13/12
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2424. Re: [mkars80] mkars80 knob power losted

Yahoo group: mkars80
Date: 2012-02-15 07:08:07 UTC
From: F5mpw
Topic: 2414 Message: 2424

Yes Steve it is:

tnx for your help.
73 philippe

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, February 14, 2012 10:17 PM
Subject: Re: [mkars80] mkars80 knob power losted

Is this current after the TX bias has been adjusted?

Steve G6ALU

On 14/02/2012 21:01, F5mpw wrote:
> Ok Steve, about 250 - 270 ma
> Phililppe F5MPW
>
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Tuesday, February 14, 2012 9:57 PM
> Subject: Re: [mkars80] mkars80 knob power losted
>
>
>
> Philippe,
>
> What current does it draw in transmit?
>
> Steve G6ALU
>
> On 14/02/2012 17:15, F5mpw wrote:
> > Hello Steve!
> > A very good thing for the Mkars 80 is a VFO with a reduce speed knob. I try and can adjust on station without tune fine...
> > I think I have a pb around filter quartz... because I lost power in.... (for TX)- I am not sur of my transfo T2 (perhaps short circut)...?
> > All the best 73 philippe F5MPW
> >
> >
> > [Non-text portions of this message have been removed]
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> > Version: 2012.0.1913 / Virus Database: 2112/4807 - Release Date: 02/13/12
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date: 02/14/12
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>

[Non-text portions of this message have been removed]

2425. Re: [mkars80] mkars80 knob power losted

Yahoo group: mkars80
Date: 2012-02-15 07:54:51 UTC
From: steve@radio-kits.co.uk
Topic: 2414 Message: 2425

OK, with a 12V supply the quiescent TX current consumption is normally about 300mA (250mA before bias adjustment), if you haven't done so already do a voltage check on each of the TX transistors - note that the ZTX651 will get very warm, this is correct.

Regards,
Steve G6ALU

On 15.02.2012 07:08, F5mpw wrote:
> Yes Steve it is:
>
> tnx for your help.
> 73 philippe
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Tuesday, February 14, 2012 10:17 PM
> Subject: Re: [mkars80] mkars80 knob power losted
>
>
>
> Is this current after the TX bias has been adjusted?
>
> Steve G6ALU
>
> On 14/02/2012 21:01, F5mpw wrote:
> > Ok Steve, about 250 - 270 ma
> > Phililppe F5MPW
> >
> >
> > ----- Original Message -----
> > From: Steve Drury
> > To: mkars80@...
> > Sent: Tuesday, February 14, 2012 9:57 PM
> > Subject: Re: [mkars80] mkars80 knob power losted
> >
> >
> >
> > Philippe,
> >
> > What current does it draw in transmit?
> >
> > Steve G6ALU
> >

> > On 14/02/2012 17:15, F5mpw wrote:
> > > Hello Steve!
> > > A very good thing for the Mkars 80 is a VFO with a reduce speed
> knob. I try and can adjust on station without tune fine...
> > > I think I have a pb around filter quartz... because I lost
> power in.... (for TX)- I am not sur of my transfo T2 (perhaps short
> circut)...?
> > > All the best 73 philippe F5MPW
> > >
> > >
> > > [Non-text portions of this message have been removed]
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> > Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date:
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2426. LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-15 08:18:27 UTC
From: Andreas
Topic: 2426 Message: 2426

While trying to get the BFO on the right frequency, which seems rather fiddly, my LCD display stopped working. When I switch on the rig it shows only black squares in the upper row. What have I done? :-(

73 Andy DC3AFA

2427. Re: [mkars80] LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-15 17:28:27 UTC
From: DAVID CLENCH
Topic: 2426 Message: 2427

Hi Andy

I think you may have adjusted R29 in error. If you turn it anti clockwise slowly it should resolve your display problem.

Regards

dave G0BVV

From: Andreas <andreas.fuehrmann@macnews.de>
To: mkars80@...
Sent: Wednesday, 15 February 2012, 8:18
Subject: [mkars80] LCD display shows only black squares?

While trying to get the BFO on the right frequency, which seems rather fiddly, my LCD display stopped working. When I switch on the rig it shows only black squares in the upper row. What have I done? :-(

73 Andy DC3AFA

[Non-text portions of this message have been removed]

2428. Re: [mkars80] LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-15 17:51:13 UTC
From: F5mpw
Topic: 2426 Message: 2428

or the PIC is in right attitude (?) dans le bon sens?
;-) 73 philippe MPW
----- Original Message -----
From: DAVID CLENCH
To: mkars80@yahoogroups.co.uk
Sent: Wednesday, February 15, 2012 6:28 PM
Subject: Re: [mkars80] LCD display shows only black squares?

Hi Andy

I think you may have adjusted R29 in error. If you turn it anti clockwise slowly it should resolve your display problem.

Regards

dave G0BVV

From: Andreas <andreas.fuehrmann@...>
To: mkars80@...
Sent: Wednesday, 15 February 2012, 8:18
Subject: [mkars80] LCD display shows only black squares?

While trying to get the BFO on the right frequency, which seems rather fiddly, my LCD display stopped working. When I switch on the rig it shows only black squares in the upper row. What have I done? :-(

73 Andy DC3AFA

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2429. Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-15 17:52:35 UTC
From: Andreas
Topic: 2426 Message: 2429

Thanks, Dave, but it´s not that simple...
If I turn R29 from one end to the other I can only make those blocks better visible ;-)
Just uploaded a new picture.
Checked voltage at R34 and VR2. Seems o.k.

73 Andy DC3AFA

--- In mkars80@..., DAVID CLENCH <david.clench@...> wrote:
>
> Hi Andy
>
> I think you may have adjusted R29 in error. If you turn it anti clockwise slowly it should resolve your display problem.
>
> Regards
>
> dave G0BVV
>
>
>
> _____
> From: Andreas <andreas.fuehrmann@...>
> To: mkars80@...
> Sent: Wednesday, 15 February 2012, 8:18
> Subject: [mkars80] LCD display shows only black squares?
>
>
> Â
> While trying to get the BFO on the right frequency, which seems rather fiddly, my LCD display stopped working. When I switch on the rig it shows only black squares in the upper row. What have I done? :-(
>
> 73 Andy DC3AFA
>
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> [Non-text portions of this message have been removed]
>

2430. Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-15 17:54:51 UTC
From: Andreas
Topic: 2426 Message: 2430

Not really... This happened when PIC was sitting in place (and had worked before)

--- In mkars80@..., "F5mpw" <f5mpw@...> wrote:
>
> or the PIC is in right attitude (?) dans le bon sens?
> ;-) 73 philippe MPW

2431. Re: [mkars80] Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-15 19:50:08 UTC
From: DAVID CLENCH
Topic: 2426 Message: 2431

Hi Andy

Yes I see, you only have partial display. I would certainly check the display connections thoroughly. I expect Steve will pick up on this thread soon and be able to help you more. Hope you fix it soon.

Dave G0BVV

From: Andreas <andreas.fuehrmann@macnews.de>
To: mkars80@...
Sent: Wednesday, 15 February 2012, 17:54
Subject: [mkars80] Re: LCD display shows only black squares?

Not really... This happened when PIC was sitting in place (and had worked before)

--- In mkars80@..., "F5mpw" <f5mpw@...> wrote:
>
> or the PIC is in right attitude (?) dans le bon sens?
> ;-) 73 philippe MPW

[Non-text portions of this message have been removed]

2432. CW adaptor

Yahoo group: mkars80
Date: 2012-02-15 21:20:28 UTC
From: simonmcgraw@btinternet.com
Topic: 2432 Message: 2432

Hi
I have finally got round to building my cw adaptor, I get a good side tone and noise from the straight keyer and iambic keyer to speaker but get no output to the microphone cable. I get 6v at pin1 on IC3 when producing a tone, IC2 gives 2.5v on pin1, 1.5v on pin6 and 0.5v on pin7 with about the same at the OSC test point, nothing like the 4v p-p it suggests on the wiring diagram.
Has IC2 died? do I need to check/test something else?

Thanks a lot Simon

2433. Re: [mkars80] Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-15 21:56:08 UTC
From: Steve Drury
Topic: 2426 Message: 2433

Sounds like either the PIC or display has failed, normally happens if
you have a little accident and you short across the PCB.

Please send me your address direct to steve(at)radio-kits.co.uk
(substitute @ for (at)) and I will get a pair posted.

Before you fit the new display and PIC please check there is clearance
under the display and nothing can short out on to the display PCB, also
check the 5V is correct.

Please confirm you can hear stations through the speaker, if not it may
be that the BFO isn't running. If you have a scope please check this at
TP10MHz.

The BFO should be relatively easy to adjust but may be difficult to get
accurate to 1Hz.

Regards,
Steve G6ALU

On 15/02/2012 19:50, DAVID CLENCH wrote:
> Hi Andy
>
> Yes I see, you only have partial display. I would certainly check the display connections thoroughly. I expect Steve will pick up on this thread soon and be able to help you more.
> Hope you fix it soon.
>
> Dave G0BVV
>
>
>
> _____
> From: Andreas<andreas.fuehrmann@...>
> To: mkars80@...
> Sent: Wednesday, 15 February 2012, 17:54
> Subject: [mkars80] Re: LCD display shows only black squares?
>
>
>
> Not really... This happened when PIC was sitting in place (and had worked before)
>
> --- In mkars80@..., "F5mpw"<f5mpw@...> wrote:
>> or the PIC is in right attitude (?) dans le bon sens?
>> ;-) 73 philippe MPW
>
>

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> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date: 02/14/12
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>

2434. Re: [mkars80] CW adaptor

Yahoo group: mkars80
Date: 2012-02-15 22:03:11 UTC
From: Steve Drury
Topic: 2432 Message: 2434

If you have a side tone then there can't be much wrong as this comes
from the filter output.

What voltage do you get on IC2 pins 3, 5 10 and 12?

Have you double checked for solder bridges and the like?

Steve G6ALU

On 15/02/2012 21:20, simonmcgraw@... wrote:
> Hi
> I have finally got round to building my cw adaptor, I get a good side tone and noise from the straight keyer and iambic keyer to speaker but get no output to the microphone cable. I get 6v at pin1 on IC3 when producing a tone, IC2 gives 2.5v on pin1, 1.5v on pin6 and 0.5v on pin7 with about the same at the OSC test point, nothing like the 4v p-p it suggests on the wiring diagram.
> Has IC2 died? do I need to check/test something else?
>
> Thanks a lot Simon
>
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> Yahoo! Groups Links
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>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date: 02/14/12
>
>

2435. RE: [mkars80] CW adaptor

Yahoo group: mkars80
Date: 2012-02-15 22:25:47 UTC
From: Simon McGraw
Topic: 2432 Message: 2435

Hi Steve

I have 3.98v on pins 3, 5, 10 and 12. (Measured by dvm) (same as between R23 and R23)

I have looked for solder bridges and cant see any bridges. I had no shorts between mic and ground

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 15 February 2012 22:03
To: mkars80@...
Subject: Re: [mkars80] CW adaptor

If you have a side tone then there can't be much wrong as this comes from the filter output.

What voltage do you get on IC2 pins 3, 5 10 and 12?

Have you double checked for solder bridges and the like?

Steve G6ALU

On 15/02/2012 21:20, simonmcgraw@... <mailto:simonmcgraw%40btinternet.com> wrote:
> Hi
> I have finally got round to building my cw adaptor, I get a good side tone and noise from the straight keyer and iambic keyer to speaker but get no output to the microphone cable. I get 6v at pin1 on IC3 when producing a tone, IC2 gives 2.5v on pin1, 1.5v on pin6 and 0.5v on pin7 with about the same at the OSC test point, nothing like the 4v p-p it suggests on the wiring diagram.
> Has IC2 died? do I need to check/test something else?
>
> Thanks a lot Simon
>
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> -----
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>

[Non-text portions of this message have been removed]

2436. Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-16 05:33:04 UTC
From: Andreas
Topic: 2426 Message: 2436

Receiving is working without any problem. Only frequency display is missing. Can change contrast on the display by adjusting R29, so maybe display is not damaged.
Sent you my address. Support in this group and especially from you, Steve, is premium!!!

73 Andy DC3AFA

--- In mkars80@....uk, Steve Drury <steve@...> wrote:
>
> Sounds like either the PIC or display has failed, normally happens if
> you have a little accident and you short across the PCB.
>
> Please send me your address direct to steve(at)radio-kits.co.uk
> (substitute @ for (at)) and I will get a pair posted.
>
> Before you fit the new display and PIC please check there is clearance
> under the display and nothing can short out on to the display PCB, also
> check the 5V is correct.
>
> Please confirm you can hear stations through the speaker, if not it may
> be that the BFO isn't running. If you have a scope please check this at
> TP10MHz.
>
> The BFO should be relatively easy to adjust but may be difficult to get
> accurate to 1Hz.
>
> Regards,
> Steve G6ALU

2437. Re: [mkars80] mkars80 knob power losted

Yahoo group: mkars80
Date: 2012-02-16 07:13:03 UTC
From: F5mpw
Topic: 2414 Message: 2437

Ok Steve thank you. I will see later... I am "in a hurry"
All the best Philippe F5MPW
(but I look news of the group every day)

----- Original Message -----
From: steve@...
To: mkars80@yahoogroups.co.uk
Sent: Wednesday, February 15, 2012 8:54 AM
Subject: Re: [mkars80] mkars80 knob power losted

OK, with a 12V supply the quiescent TX current consumption is normally
about 300mA (250mA before bias adjustment), if you haven't done so
already do a voltage check on each of the TX transistors - note that the
ZTX651 will get very warm, this is correct.

Regards,
Steve G6ALU

On 15.02.2012 07:08, F5mpw wrote:
> Yes Steve it is:
>
> tnx for your help.
> 73 philippe
>
> ----- Original Message -----
> From: Steve Drury
> To: mkars80@...
> Sent: Tuesday, February 14, 2012 10:17 PM
> Subject: Re: [mkars80] mkars80 knob power losted
>
>
>
> Is this current after the TX bias has been adjusted?
>
> Steve G6ALU
>
> On 14/02/2012 21:01, F5mpw wrote:
> > Ok Steve, about 250 - 270 ma
> > Phililppe F5MPW
> >
> >
> > ----- Original Message -----
> > From: Steve Drury
> > To: mkars80@yahoogroups.co.uk
> > Sent: Tuesday, February 14, 2012 9:57 PM
> > Subject: Re: [mkars80] mkars80 knob power losted

> >
> >
> >
> > Philippe,
> >
> > What current does it draw in transmit?
> >
> > Steve G6ALU
> >
> > On 14/02/2012 17:15, F5mpw wrote:
> > > Hello Steve!
> > > A very good thing for the Mkars 80 is a VFO with a reduce speed
> knob. I try and can adjust on station without tune fine...
> > > I think I have a pb around filter quartz... because I lost
> power in.... (for TX)- I am not sur of my transfo T2 (perhaps short
> circut)...?
> > > All the best 73 philippe F5MPW
> > >
> > >
> > > [Non-text portions of this message have been removed]
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> > > Yahoo! Groups Links
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> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1913 / Virus Database: 2112/4807 - Release
> Date: 02/13/12
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> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date:
> 02/14/12
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>

[Non-text portions of this message have been removed]

2438. Re: [mkars80] Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-16 13:55:36 UTC
From: steve@radio-kits.co.uk
Topic: 2426 Message: 2438

Will be posted tomorrow Andy, I don't have any with me today.

Its easiest to determine which is faulty by substitution, most often
it's the display as they are very sensitive to application of wrong
voltages.

Steve G6ALU

On 16.02.2012 05:33, Andreas wrote:
> Receiving is working without any problem. Only frequency display is
> missing. Can change contrast on the display by adjusting R29, so
> maybe
> display is not damaged.
> Sent you my address. Support in this group and especially from you,
> Steve, is premium!!!
>
> 73 Andy DC3AFA
>
> --- In mkars80@..., Steve Drury <steve@...> wrote:
>>
>> Sounds like either the PIC or display has failed, normally happens
>> if
>> you have a little accident and you short across the PCB.
>>
>> Please send me your address direct to steve(at)radio-kits.co.uk
>> (substitute @ for (at)) and I will get a pair posted.
>>
>> Before you fit the new display and PIC please check there is
>> clearance
>> under the display and nothing can short out on to the display PCB,
>> also
>> check the 5V is correct.
>>
>> Please confirm you can hear stations through the speaker, if not it
>> may
>> be that the BFO isn't running. If you have a scope please check this
>> at
>> TP10MHz.
>>
>> The BFO should be relatively easy to adjust but may be difficult to
>> get
>> accurate to 1Hz.
>>
>> Regards,
>> Steve G6ALU
>

>
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>
> Yahoo! Groups Links
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2439. Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-16 14:53:57 UTC
From: Andreas
Topic: 2426 Message: 2439

So PICs a re more robust... Thought the display was only getting wrong input from the controlling PIC...
Thanks anyway, Steve. One more day waiting is no problem for me.
Extraordinary support!!!

73 Andy DC3AFA

--- In mkars80@..., steve@... wrote:
>
> Will be posted tomorrow Andy, I don't have any with me today.
>
> Its easiest to determine which is faulty by substitution, most often
> it's the display as they are very sensitive to application of wrong
> voltages.
>
> Steve G6ALU
>
>
> On 16.02.2012 05:33, Andreas wrote:
> > Receiving is working without any problem. Only frequency display is
> > missing. Can change contrast on the display by adjusting R29, so
> > maybe
> > display is not damaged.
> > Sent you my address. Support in this group and especially from you,
> > Steve, is premium!!!
> >
> > 73 Andy DC3AFA
> >
> > --- In mkars80@..., Steve Drury <steve@> wrote:
> >>
> >> Sounds like either the PIC or display has failed, normally happens
> >> if
> >> you have a little accident and you short across the PCB.
> >>
> >> Please send me your address direct to steve(at)radio-kits.co.uk
> >> (substitute @ for (at)) and I will get a pair posted.
> >>
> >> Before you fit the new display and PIC please check there is
> >> clearance
> >> under the display and nothing can short out on to the display PCB,
> >> also
> >> check the 5V is correct.
> >>
> >> Please confirm you can hear stations through the speaker, if not it
> >> may

> >> be that the BFO isn't running. If you have a scope please check this
> >> at
> >> TP10MHz.
> >>
> >> The BFO should be relatively easy to adjust but may be difficult to
> >> get
> >> accurate to 1Hz.
> >>
> >> Regards,
> >> Steve G6ALU
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
>

2440. Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-16 15:23:09 UTC
From: panzerbeeb
Topic: 2426 Message: 2440

In my experience, having met this problem before, it is worth using a test meter to check continuity between the relevant pins on the pic and the pads on the display. It only takes one dodgy connection on an address line to cause this effect. I removed the displays from some of Steve's ATV controllers to remote mount them and suffered this effect on a couple, which turned out to be due to a minute fracture between a track and its pad. All the pics and displays survived without damage.
73 Mike.

--- In mkars80@yahoogroups.co.uk, "Andreas" <andreas.fuehrmann@...> wrote:
>
> So PICs a re more robust... Thought the display was only getting wrong input from the controlling PIC...
> Thanks anyway, Steve. One more day waiting is no problem for me.
> Extraordinary support!!!
>
> 73 Andy DC3AFA
>
> --- In mkars80@yahoogroups.co.uk, steve@ wrote:
> >
> > Will be posted tomorrow Andy, I don't have any with me today.
> >
> > Its easiest to determine which is faulty by substitution, most often
> > it's the display as they are very sensitive to application of wrong
> > voltages.
> >
> > Steve G6ALU
> >
> >
> > On 16.02.2012 05:33, Andreas wrote:
> > > Receiving is working without any problem. Only frequency display is
> > > missing. Can change contrast on the display by adjusting R29, so
> > > maybe
> > > display is not damaged.
> > > Sent you my address. Support in this group and especially from you,
> > > Steve, is premium!!!
> > >
> > > 73 Andy DC3AFA
> > >
> > > --- In mkars80@..., Steve Drury <steve@> wrote:
> > >>
> > >> Sounds like either the PIC or display has failed, normally happens
> > >> if
> > >> you have a little accident and you short across the PCB.
> > >>
> > >> Please send me your address direct to steve(at)radio-kits.co.uk

> > >> (substitute @ for (at)) and I will get a pair posted.
> > >>
> > >> Before you fit the new display and PIC please check there is
> > >> clearance
> > >> under the display and nothing can short out on to the display PCB,
> > >> also
> > >> check the 5V is correct.
> > >>
> > >> Please confirm you can hear stations through the speaker, if not it
> > >> may
> > >> be that the BFO isn't running. If you have a scope please check this
> > >> at
> > >> TP10MHz.
> > >>
> > >> The BFO should be relatively easy to adjust but may be difficult to
> > >> get
> > >> accurate to 1Hz.
> > >>
> > >> Regards,
> > >> Steve G6ALU
> > >
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> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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>

2441. Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-16 18:59:44 UTC
From: Andreas
Topic: 2426 Message: 2441

When I power on the rig without the pic the display shows the same blocks.
Seems rather likely that the problem is related to the pic, doesn´t it?

73 Andy DC3AFA

2442. RE: [mkars80] CW adaptor

Yahoo group: mkars80
Date: 2012-02-16 19:01:08 UTC
From: Simon McGraw
Topic: 2432 Message: 2442

I realise I have been checking my voltages against the wrong ground plane.

I get much better readings, ie a 4v output test point on the sillyscope (in my hands) if I use the normal ground plane rather than the isolated one

Simon

From: Simon McGraw [mailto:simonmcgraw@...]
Sent: 15 February 2012 22:26
To: mkars80@...
Subject: RE: [mkars80] CW adaptor

Hi Steve

I have 3.98v on pins 3, 5, 10 and 12. (Measured by dvm) (same as between R23 and R23)

I have looked for solder bridges and cant see any bridges. I had no shorts between mic and ground

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf Of Steve Drury
Sent: 15 February 2012 22:03
To: mkars80@...
Subject: Re: [mkars80] CW adaptor

If you have a side tone then there can't be much wrong as this comes from the filter output.

What voltage do you get on IC2 pins 3, 5 10 and 12?

Have you double checked for solder bridges and the like?

Steve G6ALU

On 15/02/2012 21:20, simonmcgraw@...
<mailto:simonmcgraw%40btinternet.com> wrote:
> Hi
> I have finally got round to building my cw adaptor, I get a good side tone and noise from the straight keyer and iambic keyer to speaker but get no output to the microphone cable. I get 6v at pin1 on IC3 when producing a tone, IC2 gives 2.5v on pin1, 1.5v on pin6 and 0.5v on pin7 with about the same at the OSC test point, nothing like the 4v p-p it suggests on the wiring diagram.

> Has IC2 died? do I need to check/test something else?
>
> Thanks a lot Simon
>
>
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> Yahoo! Groups Links
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>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date: 02/14/12
>
>

[Non-text portions of this message have been removed]

2443. RE: [mkars80] Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-16 19:05:36 UTC
From: Simon McGraw
Topic: 2426 Message: 2443

I too had this problem when I first powered up my MKARS80. It proved to be the connecting wires between the LCD board had not been pushed firmly enough into the sockets when first wiring up the LCD. After redoing the link wires, the display has worked reliably

Simon

_____

From: mkars80@... [mailto:mkars80@...] On Behalf Of Andreas
Sent: 16 February 2012 14:54
To: mkars80@...
Subject: [mkars80] Re: LCD display shows only black squares?

So PICs a re more robust... Thought the display was only getting wrong input from the controlling PIC...
Thanks anyway, Steve. One more day waiting is no problem for me.
Extraordinary support!!!

73 Andy DC3AFA

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> , steve@... wrote:
>
> Will be posted tomorrow Andy, I don't have any with me today.
>
> Its easiest to determine which is faulty by substitution, most often
> it's the display as they are very sensitive to application of wrong
> voltages.
>
> Steve G6ALU
>
>
> On 16.02.2012 05:33, Andreas wrote:
> > Receiving is working without any problem. Only frequency display is
> > missing. Can change contrast on the display by adjusting R29, so
> > maybe
> > display is not damaged.
> > Sent you my address. Support in this group and especially from you,
> > Steve, is premium!!!
> >
> > 73 Andy DC3AFA
> >
> > --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
Steve Drury <steve@> wrote:

> >>
> >> Sounds like either the PIC or display has failed, normally happens
> >> if
> >> you have a little accident and you short across the PCB.
> >>
> >> Please send me your address direct to steve(at)radio-kits.co.uk
> >> (substitute @ for (at)) and I will get a pair posted.
> >>
> >> Before you fit the new display and PIC please check there is
> >> clearance
> >> under the display and nothing can short out on to the display PCB,
> >> also
> >> check the 5V is correct.
> >>
> >> Please confirm you can hear stations through the speaker, if not it
> >> may
> >> be that the BFO isn't running. If you have a scope please check this
> >> at
> >> TP10MHz.
> >>
> >> The BFO should be relatively easy to adjust but may be difficult to
> >> get
> >> accurate to 1Hz.
> >>
> >> Regards,
> >> Steve G6ALU
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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[Non-text portions of this message have been removed]

2444. Re: [mkars80] Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-16 20:54:19 UTC
From: Steve Drury
Topic: 2426 Message: 2444

Yes I have had this several times before and it may be because the
display was disturbed...

Please check, I will send a display / micro if still no joy.

Steve G6ALU

On 16/02/2012 19:05, Simon McGraw wrote:
> I too had this problem when I first powered up my MKARS80. It proved to be
> the connecting wires between the LCD board had not been pushed firmly enough
> into the sockets when first wiring up the LCD. After redoing the link wires,
> the display has worked reliably
>
>
>
> Simon
>
>
>
> _____
>
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Andreas
> Sent: 16 February 2012 14:54
> To: mkars80@...
> Subject: [mkars80] Re: LCD display shows only black squares?
>
>
>
>
>
>
> So PICs a re more robust... Thought the display was only getting wrong input
> from the controlling PIC...
> Thanks anyway, Steve. One more day waiting is no problem for me.
> Extraordinary support!!!
>
> 73 Andy DC3AFA
>
> --- In mkars80@...<mailto:mkars80%40yahoogroups.co.uk> ,
> steve@... wrote:
>> Will be posted tomorrow Andy, I don't have any with me today.
>>
>> Its easiest to determine which is faulty by substitution, most often
>> it's the display as they are very sensitive to application of wrong
>> voltages.
>>

>> Steve G6ALU
>>
>>
>> On 16.02.2012 05:33, Andreas wrote:
>>> Receiving is working without any problem. Only frequency display is
>>> missing. Can change contrast on the display by adjusting R29, so
>>> maybe
>>> display is not damaged.
>>> Sent you my address. Support in this group and especially from you,
>>> Steve, is premium!!!
>>>
>>> 73 Andy DC3AFA
>>>
>>> --- In mkars80@...<mailto:mkars80%40yahoogroups.co.uk> ,
> Steve Drury<steve@> wrote:
>>>> Sounds like either the PIC or display has failed, normally happens
>>>> if
>>>> you have a little accident and you short across the PCB.
>>>>
>>>> Please send me your address direct to steve(at)radio-kits.co.uk
>>>> (substitute @ for (at)) and I will get a pair posted.
>>>>
>>>> Before you fit the new display and PIC please check there is
>>>> clearance
>>>> under the display and nothing can short out on to the display PCB,
>>>> also
>>>> check the 5V is correct.
>>>>
>>>> Please confirm you can hear stations through the speaker, if not it
>>>> may
>>>> be that the BFO isn't running. If you have a scope please check this
>>>> at
>>>> TP10MHz.
>>>>
>>>> The BFO should be relatively easy to adjust but may be difficult to
>>>> get
>>>> accurate to 1Hz.
>>>>
>>>> Regards,
>>>> Steve G6ALU
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>>> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4813 - Release Date: 02/16/12
>
>

2445. Re: [mkars80] CW adaptor

Yahoo group: mkars80
Date: 2012-02-16 20:55:41 UTC
From: Steve Drury
Topic: 2432 Message: 2445

Ahhh!

I don't think it will be the chip then! Do you get a decent sinewave at
the filter output?

Steve G6ALU

On 16/02/2012 19:01, Simon McGraw wrote:
>
>
> I realise I have been checking my voltages against the wrong ground plane.
>
> I get much better readings, ie a 4v output test point on the sillyscope (in
> my hands) if I use the normal ground plane rather than the isolated one
>
>
>
> Simon
>
> _____
>
> From: Simon McGraw [mailto:simonmcgraw@...]
> Sent: 15 February 2012 22:26
> To: mkars80@...
> Subject: RE: [mkars80] CW adaptor
>
>
>
> Hi Steve
>
> I have 3.98v on pins 3, 5, 10 and 12. (Measured by dvm) (same as between R23
> and R23)
>
> I have looked for solder bridges and cant see any bridges. I had no shorts
> between mic and ground
>
>
>
> Simon
>
>
>
>
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>
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>

> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Steve Drury
> Sent: 15 February 2012 22:03
> To: mkars80@...
> Subject: Re: [mkars80] CW adaptor
>
>
>
>
>
> If you have a side tone then there can't be much wrong as this comes
> from the filter output.
>
> What voltage do you get on IC2 pins 3, 5 10 and 12?
>
> Have you double checked for solder bridges and the like?
>
> Steve G6ALU
>
> On 15/02/2012 21:20, simonmcgraw@...
> <mailto:simonmcgraw%40btinternet.com> wrote:
>> Hi
>> I have finally got round to building my cw adaptor, I get a good side tone
> and noise from the straight keyer and iambic keyer to speaker but get no
> output to the microphone cable. I get 6v at pin1 on IC3 when producing a
> tone, IC2 gives 2.5v on pin1, 1.5v on pin6 and 0.5v on pin7 with about the
> same at the OSC test point, nothing like the 4v p-p it suggests on the
> wiring diagram.
>> Has IC2 died? do I need to check/test something else?
>>
>> Thanks a lot Simon
>>
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>> Yahoo! Groups Links
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>> -----
>> No virus found in this message.
>> Checked by AVG - www.avg.com
>> Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date: 02/14/12
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4813 - Release Date: 02/16/12
>
>

2446. Re: PC microphone with on/off switch and stereo plug

Yahoo group: mkars80
Date: 2012-02-16 20:56:29 UTC
From: johncronhelm
Topic: 2405 Message: 2446

--- In mkars80@..., John <john@...> wrote:
>
> Hi John.
> The only problem I can really see is that perhaps on a mono microphone
> they may not have used 3 core (2 + Screen) cable which would mean that
> you may not have access to the 3rd pin of the plug.
>
> I don't know if that's likely but it's possible!
>
> Good luck,
> John.
>
> On 13/02/2012 14:55, johncronhelm wrote:
> >
> > Thanks John, that answers my question.When I put my meter on the plug
> > what you said seems to be confirmed. Better rewire it!
> > Many thanks again, John.
> >
> > --- In mkars80@yahoogroups.co.uk <mailto:mkars80%40yahoogroups.co.uk>,
> > John <john@> wrote:
> > >
> > > Hi John.
> > >
> > > I think a commercial microphone with an on/off switch actually
> > > disconnects the microphone to mute it and isn't meant to control
> > anything.
> > >
> > > There used to be, many years ago, microphones which had a switch used
> > > for pausing a tape recorder but they were fitted with plugs for
> > specific
> > > recorders and I don't think they were electrets.
> > >
> > > It may be possible to modify the switch connections though.
> > >
> > > Regards,
> > > John.
> > >
> > > On 13/02/2012 12:38, johncronhelm wrote:
> > > >
> > > > Does anyone know if this would be wired according to Steve's diagram
> > > > John VO1JCC.
> > > >
> > > >
> > >
> > >

> > > [Non-text portions of this message have been removed]
> > >
> >
> >
>
>
> [Non-text portions of this message have been removed]
>

2447. Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-02-16 21:06:16 UTC
From: johncronhelm
Topic: 2447 Message: 2447

When I press PTT red LED comes on as expected,but when I speak into the mike with heat sink on Q1 the Led doesn't turn off and on as expected. Where should I check for problems in the circuit? Receive is perfect. Any ideas?
Many thanks, John VO1JCC.

2448. Re: [mkars80] Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-02-16 21:27:51 UTC
From: Steve Drury
Topic: 2447 Message: 2448

John,

The check list I use is:

1. When you talk into the microphone can you hear your self through the loudspeaker? There is normally a small amount of microphone leakage into the audio amp.
2. When you press the PTT does the power meter "kick" very slightly, it is normal for it to do so.
3. What is the current consumption when in TX? With the bias set about 300mA is normal on a 12V supply.

There is really no substitute for voltage checks - do all the voltages concur with those in the manual?

Steve G6ALU

On 16/02/2012 21:06, johncronhelm wrote:
> When I press PTT red LED comes on as expected,but when I speak into the mike with heat sink on Q1 the Led doesn't turn off and on as expected. Where should I check for problems in the circuit? Receive is perfect. Any ideas?
> Many thanks, John VO1JCC.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4813 - Release Date: 02/16/12
>
>

[Non-text portions of this message have been removed]

2449. Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-02-16 22:09:37 UTC
From: johncronhelm
Topic: 2447 Message: 2449

Tnx Steve, will try your suggestions.
John VO1JCC.

--- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:
>
> John,
>
> The check list I use is:
>
> 1. When you talk into the microphone can you hear your self through the
> loudspeaker? There is normally a small amount of microphone leakage
> into the audio amp.
> 2. When you press the PTT does the power meter "kick" very slightly, it
> is normal for it to do so.
> 3. What is the current consumption when in TX? With the bias set about
> 300mA is normal on a 12V supply.
>
> There is really no substitute for voltage checks - do all the voltages
> concur with those in the manual?
>
> Steve G6ALU
>
>
> On 16/02/2012 21:06, johncronhelm wrote:
> > When I press PTT red LED comes on as expected,but when I speak into the mike with heat sink on Q1 the Led doesn't turn off and on as expected. Where should I check for problems in the circuit? Receive is perfect. Any ideas?
> > Many thanks, John VO1JCC.
> >
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2112/4813 - Release Date: 02/16/12
> >
> >

>
>
> [Non-text portions of this message have been removed]
>

2450. Re: [mkars80] CW adaptor

Yahoo group: mkars80
Date: 2012-02-17 00:28:56 UTC
From: Simon McGraw
Topic: 2432 Message: 2450

Yes, I get a decent sine wave thanks
I will connect it op to the MKARS next
Simon

Sent from my iPhone

On 16 Feb 2012, at 20:55, Steve Drury <steve@radio-kits.co.uk> wrote:

> Ahhh!
>
> I don't think it will be the chip then! Do you get a decent sinewave at
> the filter output?
>
> Steve G6ALU
>
> On 16/02/2012 19:01, Simon McGraw wrote:
> >
> >
> > I realise I have been checking my voltages against the wrong ground plane.
> >
> > I get much better readings, ie a 4v output test point on the sillyscope (in
> > my hands) if I use the normal ground plane rather than the isolated one
> >
> >
> >
> > Simon
> >
> > _____
> >
> > From: Simon McGraw [mailto:simonmcgraw@hotmail.com]
> > Sent: 15 February 2012 22:26
> > To: mkars80@yahoogroups.co.uk
> > Subject: RE: [mkars80] CW adaptor
> >
> >
> >
> > Hi Steve
> >
> > I have 3.98v on pins 3, 5, 10 and 12. (Measured by dvm) (same as between R23
> > and R23)
> >
> > I have looked for solder bridges and cant see any bridges. I had no shorts
> > between mic and ground
> >
> >
> >

> > Simon
> >
> >
> >
> >
> >
> >
> >
> > From: mkars80@... [mailto:mkars80@...] On Behalf
> > Of Steve Drury
> > Sent: 15 February 2012 22:03
> > To: mkars80@...
> > Subject: Re: [mkars80] CW adaptor
> >
> >
> >
> >
> >
> > If you have a side tone then there can't be much wrong as this comes
> > from the filter output.
> >
> > What voltage do you get on IC2 pins 3, 5 10 and 12?
> >
> > Have you double checked for solder bridges and the like?
> >
> > Steve G6ALU
> >
> > On 15/02/2012 21:20, simonmcgraw@...
> > <mailto:simonmcgraw%40btinternet.com> wrote:
> >> Hi
> >> I have finally got round to building my cw adaptor, I get a good side tone
> > and noise from the straight keyer and iambic keyer to speaker but get no
> > output to the microphone cable. I get 6v at pin1 on IC3 when producing a
> > tone, IC2 gives 2.5v on pin1, 1.5v on pin6 and 0.5v on pin7 with about the
> > same at the OSC test point, nothing like the 4v p-p it suggests on the
> > wiring diagram.
> >> Has IC2 died? do I need to check/test something else?
> >>
> >> Thanks a lot Simon
> >>
> >>
> >>
> >> ------------------------------------
> >>
> >> Yahoo! Groups Links
> >>
> >>
> >>
> >>
> >>
> >>

> >> -----
> >> No virus found in this message.
> >> Checked by AVG - www.avg.com
> >> Version: 2012.0.1913 / Virus Database: 2112/4809 - Release Date: 02/14/12
> >>
> >>
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2112/4813 - Release Date: 02/16/12
> >
> >
>

[Non-text portions of this message have been removed]

2451. Transmit dead!

Yahoo group: mkars80
Date: 2012-02-18 01:55:44 UTC
From: johncronhelm
Topic: 2451 Message: 2451

Hi Steve,
The microphone tests you asked me to do are all negative. I did the voltages on IC2 and it looks as if that is partially fried. pin 1 10, 11,13 read zero pin2 is 1.6.volts. Unfortunately at one stage I adjusted it in its socket when I accidentally had the power on. Would you agree that this is probably the cause?
John VO1JCC.

2452. Re: [mkars80] Transmit dead!

Yahoo group: mkars80
Date: 2012-02-18 09:50:51 UTC
From: Steve Drury
Topic: 2451 Message: 2452

Do you have a display?

If so IC2 is unlikely to be fried, a faulty micro can't stop the radio transmitting.

If you are a member of a radio club is there some one with good electronics knowledge you can pass the radio to for fault finding?

Steve G6ALU

On 18/02/2012 01:55, johncronhelm wrote:
> Hi Steve,
> The microphone tests you asked me to do are all negative. I did the voltages on IC2 and it looks as if that is partially fried. pin 1 10, 11,13 read zero pin2 is 1.6.volts. Unfortunately at one stage I adjusted it in its socket when I accidentally had the power on. Would you agree that this is probably the cause?
> John VO1JCC.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4815 - Release Date: 02/17/12
>
>

2453. Re: Transmit dead!

Yahoo group: mkars80
Date: 2012-02-18 13:58:30 UTC
From: johncronhelm
Topic: 2451 Message: 2453

Steve, the display is not yet connected,wanted to make sure transmit working first.
Is it possible to have abnormal voltages on IC2 and still have It intact? Will seek help of electronics knowledigble club member. Thanks Steve.
John VO1JCC.

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Do you have a display?
>
> If so IC2 is unlikely to be fried, a faulty micro can't stop the radio
> transmitting.
>
> If you are a member of a radio club is there some one with good
> electronics knowledge you can pass the radio to for fault finding?
>
> Steve G6ALU
>
> On 18/02/2012 01:55, johncronhelm wrote:
> > Hi Steve,
> > The microphone tests you asked me to do are all negative. I did the voltages on IC2 and it looks as if that is partially fried. pin 1 10, 11,13 read zero pin2 is 1.6.volts. Unfortunately at one stage I adjusted it in its socket when I accidentally had the power on. Would you agree that this is probably the cause?
> > John VO1JCC.
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2112/4815 - Release Date: 02/17/12
> >
> >
>

2454. Re: [mkars80] Re: Transmit dead!

Yahoo group: mkars80
Date: 2012-02-18 14:03:49 UTC
From: Steve Drury
Topic: 2451 Message: 2454

John,

Most of these pins are dependent on a display being connected so don't
panic!

If you can get your club "specialist" to look at it please do so, if you
want to send it back for my attention you are welcome to do so but as
I'm busy a resolution will take some weeks.

Regards,
Steve G6ALU

On 18/02/2012 13:58, johncronhelm wrote:
> Steve, the display is not yet connected,wanted to make sure transmit working first.
> Is it possible to have abnormal voltages on IC2 and still have It intact? Will seek help
of electronics knowledigble club member. Thanks Steve.
> John VO1JCC.
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> Do you have a display?
>>
>> If so IC2 is unlikely to be fried, a faulty micro can't stop the radio
>> transmitting.
>>
>> If you are a member of a radio club is there some one with good
>> electronics knowledge you can pass the radio to for fault finding?
>>
>> Steve G6ALU
>>
>> On 18/02/2012 01:55, johncronhelm wrote:
>>> Hi Steve,
>>> The microphone tests you asked me to do are all negative. I did the voltages on IC2 and
it looks as if that is partially fried. pin 1 10, 11,13 read zero pin2 is 1.6.volts.
Unfortunately at one stage I adjusted it in its socket when I accidentally had the power
on. Would you agree that this is probably the cause?
>>> John VO1JCC.
>>>
>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
>>>

>>>
>>> -----
>>> No virus found in this message.
>>> Checked by AVG - www.avg.com
>>> Version: 2012.0.1913 / Virus Database: 2112/4815 - Release Date: 02/17/12
>>>
>>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4816 - Release Date: 02/17/12
>
>

2455. Re: Transmit dead!

Yahoo group: mkars80
Date: 2012-02-18 14:42:51 UTC
From: johncronhelm
Topic: 2451 Message: 2455

Steve,that makes me feel better,will take the 1st suggestion for now.Many thanks.
John VO1JCC.

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> John,
>
> Most of these pins are dependent on a display being connected so don't
> panic!
>
> If you can get your club "specialist" to look at it please do so, if you
> want to send it back for my attention you are welcome to do so but as
> I'm busy a resolution will take some weeks.
>
> Regards,
> Steve G6ALU
>
> On 18/02/2012 13:58, johncronhelm wrote:
> > Steve, the display is not yet connected,wanted to make sure transmit working first.
> > Is it possible to have abnormal voltages on IC2 and still have It intact? Will seek help of electronics knowledigble club member. Thanks Steve.
> > John VO1JCC.
> >
> > --- In mkars80@..., Steve Drury<steve@> wrote:
> >> Do you have a display?
> >>
> >> If so IC2 is unlikely to be fried, a faulty micro can't stop the radio
> >> transmitting.
> >>
> >> If you are a member of a radio club is there some one with good
> >> electronics knowledge you can pass the radio to for fault finding?
> >>
> >> Steve G6ALU
> >>
> >> On 18/02/2012 01:55, johncronhelm wrote:
> >>> Hi Steve,
> >>> The microphone tests you asked me to do are all negative. I did the voltages on IC2 and it looks as if that is partially fried. pin 1 10, 11,13 read zero pin2 is 1.6.volts. Unfortunately at one stage I adjusted it in its socket when I accidentally had the power on. Would you agree that this is probably the cause?
> >>> John VO1JCC.
> >>>
> >>>
> >>>
> >>> ------------------------------------

> >>>
> >>> Yahoo! Groups Links
> >>>
> >>>
> >>>
> >>>
> >>>
> >>> -----
> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 2012.0.1913 / Virus Database: 2112/4815 - Release Date: 02/17/12
> >>>
> >>>
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1913 / Virus Database: 2112/4816 - Release Date: 02/17/12
> > >
> > >
>

2456. cw adapter

Yahoo group: mkars80
Date: 2012-02-18 18:40:34 UTC
From: Graham
Topic: 2456 Message: 2456

Hi the only problem I had on finishing the adapter was there is a short length of copper on the top side of the board that links the key jack socket to point A It has holes through but no connection a short wire link fixed it .Its just behind the input sockets one end near C15.
Works a treat Graham G3UD

2457. Re: [mkars80] cw adapter

Yahoo group: mkars80
Date: 2012-02-19 00:19:19 UTC
From: Steve Drury
Topic: 2456 Message: 2457

Graham,

I hope there are no defects on the PCB?

Steve G6ALU

On 18/02/2012 18:40, Graham wrote:
> Hi the only problem I had on finishing the adapter was there is a short length of copper on the top side of the board that links the key jack socket to point A It has holes through but no connection a short wire link fixed it .Its just behind the input sockets one end near C15.
> Works a treat Graham G3UD
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4817 - Release Date: 02/18/12
>
>

2458. Re: [mkars80] Re: Transmit dead!

Yahoo group: mkars80
Date: 2012-02-19 00:32:35 UTC
From: Panagiotis Perreas
Topic: 2451 Message: 2458

Hi John!
Having constructed some of Steve's excelent Kits, I would advise you to check if you have 12V (or your supplying voltage) on all ends of T1 and T3.
"...put the blame on the enamel..."
73
Panagiotis
sv3auw/m0lpt

From: johncronhelm <johncronhelm@...>
To: mkars80@...
Sent: Saturday, 18 February 2012, 14:42
Subject: [mkars80] Re: Transmit dead!

Steve,that makes me feel better,will take the 1st suggestion for now.Many thanks.
John VO1JCC.

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> John,
>
> Most of these pins are dependent on a display being connected so don't
> panic!
>
> If you can get your club "specialist" to look at it please do so, if you
> want to send it back for my attention you are welcome to do so but as
> I'm busy a resolution will take some weeks.
>
> Regards,
> Steve G6ALU
>
> On 18/02/2012 13:58, johncronhelm wrote:
> > Steve, the display is not yet connected,wanted to make sure transmit working first.
> > Is it possible to have abnormal voltages on IC2 and still have It intact? Will seek help of electronics knowledigble club member. Thanks Steve.
> > John VO1JCC.
> >
> > --- In mkars80@..., Steve Drury<steve@> wrote:
> >> Do you have a display?
> >>
> >> If so IC2 is unlikely to be fried, a faulty micro can't stop the radio
> >> transmitting.
> >>
> >> If you are a member of a radio club is there some one with good
> >> electronics knowledge you can pass the radio to for fault finding?
> >>

> >> Steve G6ALU
> >>
> >> On 18/02/2012 01:55, johncronhelm wrote:
> >>> Hi Steve,
> >>> The microphone tests you asked me to do are all negative. I did the voltages on IC2 and it looks as if that is partially fried. pin 1 10, 11,13 read zero pin2 is 1.6.volts. Unfortunately at one stage I adjusted it in its socket when I accidentally had the power on. Would you agree that this is probably the cause?
> >>> John VO1JCC.
> >>>
> >>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
> >>>
> >>>
> >>>
> >>>
> >>> -----
> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 2012.0.1913 / Virus Database: 2112/4815 - Release Date: 02/17/12
> >>>
> >>>
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1913 / Virus Database: 2112/4816 - Release Date: 02/17/12
> > >
> > >
> >

[Non-text portions of this message have been removed]

2459. Re: [mkars80] cw adapter

Yahoo group: mkars80
Date: 2012-02-19 15:27:05 UTC
From: Graham Bloor
Topic: 2456 Message: 2459

I think perhaps there was no solder through the two holes. On checking my MKars80 tx manual I noticed the voltages sheet No 15 is
blank should I download again graham G3UD

From: Steve Drury <steve@...>
To: mkars80@...
Sent: Sunday, 19 February 2012, 0:19
Subject: Re: [mkars80] cw adapter

Graham,

I hope there are no defects on the PCB?

Steve G6ALU

On 18/02/2012 18:40, Graham wrote:
> Hi the only problem I had on finishing the adapter was there is a short length of copper on the top side of the board that links the key jack socket to point A It has holes through but no connection a short wire link fixed it .Its just behind the input sockets one end near C15.
> Works a treat Graham G3UD
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4817 - Release Date: 02/18/12
>
>

[Non-text portions of this message have been removed]

2460. Re: [mkars80] cw adapter

Yahoo group: mkars80
Date: 2012-02-19 16:41:19 UTC
From: Graham Bloor
Topic: 2456 Message: 2460

Sorry Steve forget the last query (volts/sheet) I've found it (sheet 21) oops I meant the CW Adapter sheet15 Graham

---
From: Steve Drury <steve@...>
To: mkars80@yahoogroups.co.uk
Sent: Sunday, 19 February 2012, 0:19
Subject: Re: [mkars80] cw adapter

Graham,

I hope there are no defects on the PCB?

Steve G6ALU

On 18/02/2012 18:40, Graham wrote:
> Hi the only problem I had on finishing the adapter was there is a short length of copper on the top side of the board that links the key jack socket to point A It has holes through but no connection a short wire link fixed it .Its just behind the input sockets one end near C15.
> Works a treat Graham G3UD
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4817 - Release Date: 02/18/12
>
>

[Non-text portions of this message have been removed]

2461. Re: Transmit dead!

Yahoo group: mkars80
Date: 2012-02-19 19:21:11 UTC
From: johncronhelm
Topic: 2451 Message: 2461

Tnx for the tip,so far have just checked for continuity.
John VO1JCC,

--- In mkars80@..., Panagiotis Perreas <sv3auw@...> wrote:
>
> Hi John!
> Having constructed some of Steve's excelent Kits, I would advise you to check if you have 12V (or your supplying voltage) on all ends of T1 and T3.
> "...put the blame on the enamel..."
> 73
> Panagiotis
> sv3auw/m0lpt
>
>
> _____
> From: johncronhelm <johncronhelm@...>
> To: mkars80@...
> Sent: Saturday, 18 February 2012, 14:42
> Subject: [mkars80] Re: Transmit dead!
>
>
> Â
> Steve,that makes me feel better,will take the 1st suggestion for now.Many thanks.
> John VO1JCC.
>
> --- In mkars80@..., Steve Drury <steve@> wrote:
> >
> > John,
> >
> > Most of these pins are dependent on a display being connected so don't
> > panic!
> >
> > If you can get your club "specialist" to look at it please do so, if you
> > want to send it back for my attention you are welcome to do so but as
> > I'm busy a resolution will take some weeks.
> >
> > Regards,
> > Steve G6ALU
> >
> > On 18/02/2012 13:58, johncronhelm wrote:
> > > Steve, the display is not yet connected,wanted to make sure transmit working first.
> > > Is it possible to have abnormal voltages on IC2 and still have It intact? Will seek help of electronics knowledigble club member. Thanks Steve.
> > > John VO1JCC.
> > >

> > > --- In mkars80@..., Steve Drury<steve@> wrote:
> > >> Do you have a display?
> > >>
> > >> If so IC2 is unlikely to be fried, a faulty micro can't stop the radio
> > >> transmitting.
> > >>
> > >> If you are a member of a radio club is there some one with good
> > >> electronics knowledge you can pass the radio to for fault finding?
> > >>
> > >> Steve G6ALU
> > >>
> > >> On 18/02/2012 01:55, johncronhelm wrote:
> > >>> Hi Steve,
> > >>> The microphone tests you asked me to do are all negative. I did the voltages on IC2
and it looks as if that is partially fried. pin 1 10, 11,13 read zero pin2 is 1.6.volts.
Unfortunately at one stage I adjusted it in its socket when I accidentally had the power
on. Would you agree that this is probably the cause?
> > >>> John VO1JCC.
> > >>>
> > >>>
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> > >>> ------------------------------------
> > >>>
> > >>> Yahoo! Groups Links
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> > >>>
> > >>> -----
> > >>> No virus found in this message.
> > >>> Checked by AVG - www.avg.com
> > >>> Version: 2012.0.1913 / Virus Database: 2112/4815 - Release Date: 02/17/12
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> > > Yahoo! Groups Links
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> > >
> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1913 / Virus Database: 2112/4816 - Release Date: 02/17/12

> > >
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>
>
>
> [Non-text portions of this message have been removed]
>

2462. R2

Yahoo group: mkars80
Date: 2012-02-19 19:35:51 UTC
From: johncronhelm
Topic: 2462 Message: 2462

Steve,
I think this preset resistor may be ok reads 1k95 in
circuit as is ,and increases when it is turned clockwise.
Probably some days before I get expert help.
Thank you,
John VO1JCC

2463. R2

Yahoo group: mkars80
Date: 2012-02-19 19:36:26 UTC
From: johncronhelm
Topic: 2462 Message: 2463

Steve,
I think this preset resistor may be ok reads 1k95 in
circuit as is ,and increases when it is turned clockwise.
Probably some days before I get expert help.
Thank you,
John VO1JCC

2464. Re: [mkars80] R2

Yahoo group: mkars80
Date: 2012-02-19 19:55:02 UTC
From: Steve Drury
Topic: 2462 Message: 2464

Check the wiper varies to the grounded end.

Steve G6ALU

On 19/02/2012 19:36, johncronhelm wrote:
> Steve,
> I think this preset resistor may be ok reads 1k95 in
> circuit as is ,and increases when it is turned clockwise.
> Probably some days before I get expert help.
> Thank you,
> John VO1JCC
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
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>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2112/4817 - Release Date: 02/18/12
>
>

2465. Heat Sink

Yahoo group: mkars80
Date: 2012-02-20 02:11:24 UTC
From: johncronhelm
Topic: 2465 Message: 2465

As a temporary Heat Sink before boxing up I have used a 32nd inch Aluminium plate 1 3/4 "x 2 3/4" screwed to the back of Q1 drain. Can anyone tell me if this would be adequate for PTTand Microphone tests of transmit mode of the MKARS80. Recently I blew the fuse during PTT test. which is the reason I ask. Perhaps I have answered my own question! Any ideas?

2466. Re: [mkars80] Heat Sink

Yahoo group: mkars80
Date: 2012-02-20 22:08:50 UTC
From: Steve Drury
Topic: 2465 Message: 2466

If it runs cool (doesn't burn your finger) it's OK, but watch it doesn't
short to other parts or you will blow the fuse or worse.

Steve G6ALU

On 20/02/2012 02:11, johncronhelm wrote:
> As a temporary Heat Sink before boxing up I have used a 32nd inch Aluminium plate
> 1 3/4 "x 2 3/4" screwed to the back of Q1 drain. Can anyone tell me if this would be adequate for PTTand Microphone tests of transmit mode of the MKARS80. Recently I blew the fuse during PTT test. which is the reason I ask. Perhaps I have answered my own question! Any ideas?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
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>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2113/4819 - Release Date: 02/19/12
>
>

2467. Re: Heat Sink

Yahoo group: mkars80
Date: 2012-02-20 22:55:45 UTC
From: johncronhelm
Topic: 2465 Message: 2467

Thanks Steve, that's good to know,need to be careful about shorting, possibly that might have happened. I notice fast and slow 2amp fuses are available,do I need the former?
John,VO1JCC.

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> If it runs cool (doesn't burn your finger) it's OK, but watch it doesn't
> short to other parts or you will blow the fuse or worse.
>
> Steve G6ALU
>
> On 20/02/2012 02:11, johncronhelm wrote:
> > As a temporary Heat Sink before boxing up I have used a 32nd inch Aluminium plate
> > 1 3/4 "x 2 3/4" screwed to the back of Q1 drain. Can anyone tell me if this would be adequate for PTTand Microphone tests of transmit mode of the MKARS80. Recently I blew the fuse during PTT test. which is the reason I ask. Perhaps I have answered my own question! Any ideas?
> >
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2113/4819 - Release Date: 02/19/12
> >
> >
>

2468. Re: [mkars80] Re: Heat Sink

Yahoo group: mkars80
Date: 2012-02-21 08:00:25 UTC
From: steve@radio-kits.co.uk
Topic: 2465 Message: 2468

On 20.02.2012 22:55, johncronhelm wrote:
> Thanks Steve, that's good to know,need to be careful about shorting,
> possibly that might have happened. I notice fast and slow 2amp fuses
> are available,do I need the former?
> John,VO1JCC.
>
> --- In mkars80@..., Steve Drury <steve@...> wrote:
>>
>> If it runs cool (doesn't burn your finger) it's OK, but watch it
>> doesn't
>> short to other parts or you will blow the fuse or worse.
>>
>> Steve G6ALU
>>
>> On 20/02/2012 02:11, johncronhelm wrote:
>> > As a temporary Heat Sink before boxing up I have used a 32nd inch
>> Aluminium plate
>> > 1 3/4 "x 2 3/4" screwed to the back of Q1 drain. Can anyone tell
>> me if this would be adequate for PTTand Microphone tests of transmit
>> mode of the MKARS80. Recently I blew the fuse during PTT test. which
>> is the reason I ask. Perhaps I have answered my own question! Any
>> ideas?

Yes you need fast blow.

Steve

2469. Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-24 22:32:41 UTC
From: Andreas
Topic: 2426 Message: 2469

Thanks, Steve,
your package arrived today.
Put in the new pic and display is working again!

73 Andy DC3AFA

2470. Re: [mkars80] Re: LCD display shows only black squares?

Yahoo group: mkars80
Date: 2012-02-24 22:34:12 UTC
From: Steve Drury
Topic: 2426 Message: 2470

Hi Andy,

We should have taken bets on what the cure would be!

Have fun,
Steve G6ALU

On 24/02/2012 22:32, Andreas wrote:
> Thanks, Steve,
> your package arrived today.
> Put in the new pic and display is working again!
>
> 73 Andy DC3AFA

2471. BC 547

Yahoo group: mkars80
Date: 2012-02-25 07:41:13 UTC
From: F5mpw
Topic: 2471 Message: 2471

Thanks, Steve,
your package arrived during hollidays with 4 transistors.
May you tell me current just RX - current transmitting - (inclued 50 ma)

All the best 73 philippe F5MPW

[Non-text portions of this message have been removed]

2472. good new for my Mkars 80

Yahoo group: mkars80
Date: 2012-02-25 17:43:19 UTC
From: F5mpw
Topic: 2472 Message: 2472

Hello.
I found my error on my Mkars 80: I had somes difficulties when I wound T2, I redid it today. Only 3 turns! no 5!
Now 3 watts but I need to adjust current as written in pdf.

At this moment RX 110 ma - TX without speak 290 ma - and whistling 900ma- voltage 12w...
the Mkars is not in enclosure...
All the best! 73 Philippe F5MPW

[Non-text portions of this message have been removed]

2473. Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-02-26 08:26:12 UTC
From: Andreas
Topic: 2447 Message: 2473

It´s the same for me.
Bias current is .28 A while pressing PTT and goes to .38 A with a loud whistle.
I can hear my voice in the attached loud speaker but power output is only a few hundred milli amperes and LED doesn´t extinguish...

73 Andy DC3AFA

2474. Re: [mkars80] Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-02-26 08:51:00 UTC
From: F5mpw
Topic: 2447 Message: 2474

Ok Andry,
Even few milli watts (about 300 mw) the LED extinguish... when I speak loud with my Mkars...
Now I am waiting for the real values of currents - RX - TX without speaking - and TX with a loud whistle. I have to tune in the metal enclosure, perphaps a better microphone...
MKARS 80 is a good "bargain" ;-) 73 philippe F5MPW

----- Original Message -----
From: Andreas
To: mkars80@...
Sent: Sunday, February 26, 2012 9:26 AM
Subject: [mkars80] Re: Finally made new microphone successfully

It´s the same for me.
Bias current is .28 A while pressing PTT and goes to .38 A with a loud whistle.
I can hear my voice in the attached loud speaker but power output is only a few hundred milli amperes and LED doesn´t extinguish...

73 Andy DC3AFA

[Non-text portions of this message have been removed]

2475. Re: [mkars80] Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-02-26 09:36:47 UTC
From: Steve Drury
Topic: 2447 Message: 2475

Typical currents at 12V supply are as follows:

Receive with no audio - 110mA
TX with no modulation - 285mA
TX with a whistle to produce ~ 5W - 1.05A

These currents will differ a little depending on device characteristic,
tolerances etc.

The most common reason for low TX output is poor soldering on the mixer
transformers T4, T5, and T6.

On two occasions I have had cracked track in the emitter decoupling
circuit of the TX stage transistors Q5 and Q9. Check the track for
continuity around C23 / R24 and C43 / R36. This will need checking with
a meter as it may look OK visually, note that with this fault the DC
voltages will be correct.

Cracks between track and pad can be caused by blunt side-cutters or
cropping more than one lead at a time which stresses the track.

Steve G6ALU

On 26/02/2012 08:26, Andreas wrote:
> It?s the same for me.
> Bias current is .28 A while pressing PTT and goes to .38 A with a loud whistle.
> I can hear my voice in the attached loud speaker but power output is only a few hundred
milli amperes and LED doesn?t extinguish...
>
> 73 Andy DC3AFA
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4831 - Release Date: 02/25/12
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2476. Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-02-26 11:35:23 UTC
From: Andreas
Topic: 2447 Message: 2476

Checked all of this, but still the same problem.
Receive with no audio 110 mA
TX with no modulation 285 mA
but only 350 mA max with whistling
Strange...

73 And DC3AFA

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Typical currents at 12V supply are as follows:
>
> Receive with no audio - 110mA
> TX with no modulation - 285mA
> TX with a whistle to produce ~ 5W - 1.05A
>
> These currents will differ a little depending on device characteristic,
> tolerances etc.
>
> The most common reason for low TX output is poor soldering on the mixer
> transformers T4, T5, and T6.
>
> On two occasions I have had cracked track in the emitter decoupling
> circuit of the TX stage transistors Q5 and Q9. Check the track for
> continuity around C23 / R24 and C43 / R36. This will need checking with
> a meter as it may look OK visually, note that with this fault the DC
> voltages will be correct.
>
> Cracks between track and pad can be caused by blunt side-cutters or
> cropping more than one lead at a time which stresses the track.
>
> Steve G6ALU
>
>
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>
> On 26/02/2012 08:26, Andreas wrote:
> > It´s the same for me.
> > Bias current is .28 A while pressing PTT and goes to .38 A with a loud whistle.
> > I can hear my voice in the attached loud speaker but power output is only a few hundred
milli amperes and LED doesn´t extinguish...
> >
> > 73 Andy DC3AFA
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2114/4831 - Release Date: 02/25/12
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2477. Re: [mkars80] Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-02-26 12:07:49 UTC
From: F5mpw
Topic: 2447 Message: 2477

Are you sure of T2 ? 2x3 turns? it was my fault ;-)73 ph

----- Original Message -----
From: Andreas
To: mkars80@...
Sent: Sunday, February 26, 2012 12:35 PM
Subject: [mkars80] Re: Finally made new microphone successfully

Checked all of this, but still the same problem.
Receive with no audio 110 mA
TX with no modulation 285 mA
but only 350 mA max with whistling
Strange...

73 And DC3AFA

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Typical currents at 12V supply are as follows:
>
> Receive with no audio - 110mA
> TX with no modulation - 285mA
> TX with a whistle to produce ~ 5W - 1.05A
>
> These currents will differ a little depending on device characteristic,
> tolerances etc.
>
> The most common reason for low TX output is poor soldering on the mixer
> transformers T4, T5, and T6.
>
> On two occasions I have had cracked track in the emitter decoupling
> circuit of the TX stage transistors Q5 and Q9. Check the track for
> continuity around C23 / R24 and C43 / R36. This will need checking with
> a meter as it may look OK visually, note that with this fault the DC
> voltages will be correct.
>
> Cracks between track and pad can be caused by blunt side-cutters or
> cropping more than one lead at a time which stresses the track.
>
> Steve G6ALU
>
>
>
>
> On 26/02/2012 08:26, Andreas wrote:
> > It´s the same for me.

> > Bias current is .28 A while pressing PTT and goes to .38 A with a loud whistle.
> > I can hear my voice in the attached loud speaker but power output is only a few hundred milli amperes and LED doesn´t extinguish...
> >
> > 73 Andy DC3AFA
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2114/4831 - Release Date: 02/25/12
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[Non-text portions of this message have been removed]

2478. frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-26 19:18:56 UTC
From: kl7dave
Topic: 2478 Message: 2478

I'm just starting my build.

What are you U.S. hams doing - using this between 3.6 and 3.8 MHz? Is there an easy way to shift from the designed 3.5 - 3.8 and include 3.6 to 4.0? Is this just done during tuning, or were some mods needed?

Any details and discussion would be appreciated.

thanks,

Dave KL7P

2479. Re: [mkars80] frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-26 21:42:40 UTC
From: Panagiotis Perreas
Topic: 2478 Message: 2479

Hi Dave!
Do the varicap mode and you will cover 3.620Mhz up to a little bit over 4Mhz.
Although it uses a multiturn pot, you have to be light-handed.
The more the band spread the more the sensitivity of the pot!
I have made two mods already. One for Region1 and one for Region2!
I wish you all the best and good DX.
73
Panos
sv3auw/m0lpt

From: kl7dave <dcharing@...>
To: mkars80@...
Sent: Sunday, 26 February 2012, 19:18
Subject: [mkars80] frequencies for U.S. ham bands

I'm just starting my build.

What are you U.S. hams doing - using this between 3.6 and 3.8 MHz? Is there an easy way to shift from the designed 3.5 - 3.8 and include 3.6 to 4.0? Is this just done during tuning, or were some mods needed?

Any details and discussion would be appreciated.

thanks,

Dave KL7P

[Non-text portions of this message have been removed]

2480. Re: [mkars80] frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-26 21:50:49 UTC
From: Steve Drury
Topic: 2478 Message: 2480

Increase the value of C47 slightly - 82pF NP0 type suggested.

Regards,
Steve G6ALU

On 26/02/2012 19:18, kl7dave wrote:
> I'm just starting my build.
>
> What are you U.S. hams doing - using this between 3.6 and 3.8 MHz? Is there an easy way to shift from the designed 3.5 - 3.8 and include 3.6 to 4.0? Is this just done during tuning, or were some mods needed?
>
> Any details and discussion would be appreciated.
>
> thanks,
>
> Dave KL7P
>
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4833 - Release Date: 02/26/12
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2481. Re: [mkars80] frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-28 17:12:24 UTC
From: F5mpw
Topic: 2478 Message: 2481

Good evening.

At this moment, my problem is to mitigate USB on my Mkars 80. I can hear my transmission in my IC 7000 in LSB ou USB canI adjust some component in Mkars? which one? to eliminate a part of USB?
73 Philippe F5MPW

[Non-text portions of this message have been removed]

2482. Re: [mkars80] frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-28 17:51:11 UTC
From: K.Greenough
Topic: 2478 Message: 2482

Hello Philippe,
Is the set in a metal [screened] box ? and are the MKRRS80 and
the IC7000 well seperated ? Double side band is generated in the Tx
and USB removed by the filter but if close enough you will probably
hear the USB signal direct from the Tx, that is, not from the aerial.
You really need to examine the output on a spectrum analyser to
check USB level. There will always be a small amount of USB
radiated of course, no filter is perfect.
73 Ken g8beq

[Non-text portions of this message have been removed]

2483. Re: frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-28 18:46:31 UTC
From: Michael Meerman
Topic: 2478 Message: 2483

Dave,

The final band adjustment is very easy and allows the full range.

At the moment, mine tunes from 3.490 up to 3.933. There's a trimmer on the main varicap that allows you to adjust the band. Very easy.

I got mine finished not long ago, and this weekend I had good fun with the french REF contest on 80m SSB.
Checking locators on QRZ.com, my best dx is now well over 700 km, and several over 500km. And that is 4Wtts into a inverted L antenna (end-fed).

73's and good luck

Michael M0MPM / PA3BHF

[Non-text portions of this message have been removed]

2484. 40W liear PA

Yahoo group: mkars80
Date: 2012-02-28 18:51:26 UTC
From: Hans Wagndal
Topic: 2484 Message: 2484

HI
I am new radioamateur and I am 75 yers old.
I have built an MKARS80 an it will funktion good.
BUT.----
I am not good to build good antennas and my
5w visper in the air.I have two dipoles in 3,7MHz
My QTH is Öland outside Sweden. SA7BMZ is my prefix.

I have seen a 40 W Linear Amp but I have not
picked up Where I can Order it.
When you ask for MKARS80 I can see this
40W Linear Amp with Wox. on Googles
Where can I find PCB and components for it?
Hans Wagndal
hans-wagndal@...

[Non-text portions of this message have been removed]

2485. Re: [mkars80] 40W liear PA

Yahoo group: mkars80
Date: 2012-02-28 19:46:11 UTC
From: Steve Drury
Topic: 2484 Message: 2485

You have probably seen http://pa0rcl.com/PA0RCL/MKARS80_Linear_Amp.html
but I don't think kits or PCBs are available.

Steve G6ALU

On 28/02/2012 18:51, Hans Wagndal wrote:
> HI
> I am new radioamateur and I am 75 yers old.
> I have built an MKARS80 an it will funktion good.
> BUT.----
> I am not good to build good antennas and my
> 5w visper in the air.I have two dipoles in 3,7MHz
> My QTH is ?land outside Sweden. SA7BMZ is my prefix.
>
> I have seen a 40 W Linear Amp but I have not
> picked up Where I can Order it.
> When you ask for MKARS80 I can see this
> 40W Linear Amp with Wox. on Googles
> Where can I find PCB and components for it?
> Hans Wagndal
> hans-wagndal@...
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> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4837 - Release Date: 02/28/12
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2486. Re: [mkars80] frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-28 20:22:22 UTC
From: DAVID CLENCH
Topic: 2478 Message: 2486

Hi Philippe

I think you have your MKARS80 too close to your other rig. I would suggest you try it out on air.

Good luck

Dave G0BVV

From: F5mpw <f5mpw@...>
To: mkars80@yahoogroups.co.uk
Sent: Tuesday, 28 February 2012, 17:12
Subject: Re: [mkars80] frequencies for U.S. ham bands

Good evening.

At this moment, my problem is to mitigate USB on my Mkars 80. I can hear my transmission in my IC 7000 in LSB ou USB canI adjust some component in Mkars? which one? to eliminate a part of USB?
73 Philippe F5MPW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2487. Re: [mkars80] frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-28 20:32:11 UTC
From: Steve Drury
Topic: 2478 Message: 2487

Philippe

Check the BFO trimmer (C83) as been adjusted for 10MHz at TP 10MHz, if
so all should be OK.

Regards,
Steve G6ALU

On 28/02/2012 17:12, F5mpw wrote:
> Good evening.
>
> At this moment, my problem is to mitigate USB on my Mkars 80. I can hear my transmission in my IC 7000 in LSB ou USB canI adjust some component in Mkars? which one? to eliminate a part of USB?
> 73 Philippe F5MPW
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> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4835 - Release Date: 02/27/12
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2488. BFO trimmer

Yahoo group: mkars80
Date: 2012-02-29 06:19:37 UTC
From: F5mpw
Topic: 2488 Message: 2488

Thank you Steve for this information.
73 Philippe F5MPW

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, February 28, 2012 9:32 PM
Subject: Re: [mkars80] frequencies for U.S. ham bands

Philippe

Check the BFO trimmer (C83) as been adjusted for 10MHz at TP 10MHz, if
so all should be OK.

Regards,
Steve G6ALU

On 28/02/2012 17:12, F5mpw wrote:
> Good evening.
>
> At this moment, my problem is to mitigate USB on my Mkars 80. I can hear my transmission in my IC 7000 in LSB ou USB canI adjust some component in Mkars? which one? to eliminate a part of USB?
> 73 Philippe F5MPW
>
> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4835 - Release Date: 02/27/12
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[Non-text portions of this message have been removed]

2489. Re: [mkars80] frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-29 06:22:28 UTC
From: F5mpw
Topic: 2478 Message: 2489

Hi Dave

it's true Mkars80 was near ICOM 7000. I have to try again!
73 Philippe F5MPW

----- Original Message -----
From: DAVID CLENCH
To: mkars80@...
Sent: Tuesday, February 28, 2012 9:22 PM
Subject: Re: [mkars80] frequencies for U.S. ham bands

Hi Philippe

I think you have your MKARS80 too close to your other rig. I would suggest you try it out on air.

Good luck

Dave G0BVV

From: F5mpw <f5mpw@...>
To: mkars80@...
Sent: Tuesday, 28 February 2012, 17:12
Subject: Re: [mkars80] frequencies for U.S. ham bands

Good evening.

At this moment, my problem is to mitigate USB on my Mkars 80. I can hear my transmission in my IC 7000 in LSB ou USB canI adjust some component in Mkars? which one? to eliminate a part of USB?
73 Philippe F5MPW

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2490. Re: [mkars80] frequencies for U.S. ham bands

Yahoo group: mkars80
Date: 2012-02-29 06:34:21 UTC
From: F5mpw
Topic: 2478 Message: 2490

Hello Ken.
Yes my Mkars 80 was near my ICOM 7000 and not in a metallic enclosure... Now I have to put PCB in the enclosure (of the kit) and try again. I will tell at this list my progress...
Thank you!
73 Philippe F5MPW
----- Original Message -----
From: K.Greenough
To: mkars80@...
Sent: Tuesday, February 28, 2012 6:51 PM
Subject: Re: [mkars80] frequencies for U.S. ham bands

Hello Philippe,
Is the set in a metal [screened] box ? and are the MKRRS80 and
the IC7000 well seperated ? Double side band is generated in the Tx
and USB removed by the filter but if close enough you will probably
hear the USB signal direct from the Tx, that is, not from the aerial.
You really need to examine the output on a spectrum analyser to
check USB level. There will always be a small amount of USB
radiated of course, no filter is perfect.
73 Ken g8beq

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2491. Re: [mkars80] 40W liear PA

Yahoo group: mkars80
Date: 2012-02-28 23:02:45 UTC
From: Hans Wagndal
Topic: 2484 Message: 2491

Thank-you Steve.
Perhaps it is a better way to lern more about antennas and how to build them.
Climbing around on my roof of the house fasting my antennas and Newton vill take me down and Angels take me upp.
QRP with less then 10 W is fasinating.
I have very fun during the soldering fas and
to test the prodjekt. Then to sit for hours in QSO and tell another that the temperature is +9,5 deg.and the pressure is 1003hPa is not my type.
Hans

----- Original Message -----
From: Steve Drury
To: mkars80@yahoogroups.co.uk
Sent: Tuesday, February 28, 2012 8:46 PM
Subject: Re: [mkars80] 40W liear PA

You have probably seen http://pa0rcl.com/PA0RCL/MKARS80_Linear_Amp.html
but I don't think kits or PCBs are available.

Steve G6ALU

On 28/02/2012 18:51, Hans Wagndal wrote:
> HI
> I am new radioamateur and I am 75 yers old.
> I have built an MKARS80 an it will funktion good.
> BUT.----
> I am not good to build good antennas and my
> 5w visper in the air.I have two dipoles in 3,7MHz
> My QTH is Öland outside Sweden. SA7BMZ is my prefix.
>
> I have seen a 40 W Linear Amp but I have not
> picked up Where I can Order it.
> When you ask for MKARS80 I can see this
> 40W Linear Amp with Wox. on Googles
> Where can I find PCB and components for it?
> Hans Wagndal
> hans-wagndal@...
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> [Non-text portions of this message have been removed]
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4837 - Release Date: 02/28/12
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[Non-text portions of this message have been removed]

2492. Re: [mkars80] 40W liear PA

Yahoo group: mkars80
Date: 2012-02-29 07:46:51 UTC
From: steve@radio-kits.co.uk
Topic: 2484 Message: 2492

Hans,

Leave talking about the weather to the English, we are good at it!

I use a G5RV and have good results.

Steve G6ALU

On 28.02.2012 23:02, Hans Wagndal wrote:
> Thank-you Steve.
> Perhaps it is a better way to lern more about antennas and how to
> build them.
> Climbing around on my roof of the house fasting my antennas and
> Newton vill take me down and Angels take me upp.
> QRP with less then 10 W is fasinating.
> I have very fun during the soldering fas and
> to test the prodjekt. Then to sit for hours in QSO and tell another
> that the temperature is +9,5 deg.and the pressure is 1003hPa is not
> my
> type.
> Hans
>

2493. Re: [mkars80] 40W liear PA

Yahoo group: mkars80
Date: 2012-02-29 12:32:21 UTC
From: F5mpw
Topic: 2484 Message: 2493

Hello Hans.
A simple and nice antenna is the center fed:
wire 2x20.50m and feeder 450 ohms (18m) at the end you use a MFJ - 948 (balanced output)
You need only one mast on your chimney (roof) . Ask to a slater for that! Stay with us ;-)

At home I have the same, with 1w in cw I go to suedeen... Norway and...USA from Brittany in France
Best 73 Philippe F5MPW

----- Original Message -----
From: Hans Wagndal
To: mkars80@...
Sent: Wednesday, February 29, 2012 12:02 AM
Subject: Re: [mkars80] 40W liear PA

Thank-you Steve.
Perhaps it is a better way to lern more about antennas and how to build them.
Climbing around on my roof of the house fasting my antennas and Newton vill take me down and Angels take me upp.
QRP with less then 10 W is fasinating.
I have very fun during the soldering fas and
to test the prodjekt. Then to sit for hours in QSO and tell another that the temperature is +9,5 deg.and the pressure is 1003hPa is not my type.
Hans

----- Original Message -----
From: Steve Drury
To: mkars80@...
Sent: Tuesday, February 28, 2012 8:46 PM
Subject: Re: [mkars80] 40W liear PA

You have probably seen http://pa0rcl.com/PA0RCL/MKARS80_Linear_Amp.html
but I don't think kits or PCBs are available.

Steve G6ALU

On 28/02/2012 18:51, Hans Wagndal wrote:
> HI
> I am new radioamateur and I am 75 yers old.
> I have built an MKARS80 an it will funktion good.
> BUT.----
> I am not good to build good antennas and my
> 5w visper in the air.I have two dipoles in 3,7MHz
> My QTH is Öland outside Sweden. SA7BMZ is my prefix.
>
> I have seen a 40 W Linear Amp but I have not
> picked up Where I can Order it.

> When you ask for MKARS80 I can see this
> 40W Linear Amp with Wox. on Googles
> Where can I find PCB and components for it?
> Hans Wagndal
> hans-wagndal@...
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4837 - Release Date: 02/28/12
>
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2495. First start up of the radio

Yahoo group: mkars80
Date: 2012-03-01 12:36:11 UTC
From: thomyhancroft
Topic: 2495 Message: 2495

The first start up went well, no smoke and funny noises :)
and i have the correct volts 5V on R34 and 8 V on VR2, but when i connected the display i have one number that shows wrong letter. Its looks a bit like "@" instead of 3.
And nothing happends in the display when i turn the vfo, i am thankful if someone have an idea what coz this problem

Regards

Tom Kristiansen
LA5TSA

2496. Re: [mkars80] First start up of the radio

Yahoo group: mkars80
Date: 2012-03-01 13:13:25 UTC
From: steve@radio-kits.co.uk
Topic: 2495 Message: 2496

On 01.03.2012 12:36, thomyhancroft wrote:
> The first start up went well, no smoke and funny noises :)
> and i have the correct volts 5V on R34 and 8 V on VR2, but when i
> connected the display i have one number that shows wrong letter. Its
> looks a bit like "@" instead of 3.
> And nothing happends in the display when i turn the vfo, i am
> thankful if someone have an idea what coz this problem
>
> Regards
>
> Tom Kristiansen
> LA5TSA
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
Hello Tom,

It sound like you have no VFO signal reaching the micro-controller - I don't have a diagram available at the moment so can't give you references but check the voltages on the VFO transistor, the buffer transistor and amplifier which feeds the micro.

Can you tune anything in?

Regards,
Steve G6ALU

2497. Re: First start up of the radio

Yahoo group: mkars80
Date: 2012-03-01 19:27:37 UTC
From: thomyhancroft
Topic: 2495 Message: 2497

--- In mkars80@..., steve@... wrote:
>
> On 01.03.2012 12:36, thomyhancroft wrote:
> > The first start up went well, no smoke and funny noises :)
> > and i have the correct volts 5V on R34 and 8 V on VR2, but when i
> > connected the display i have one number that shows wrong letter. Its
> > looks a bit like "@" instead of 3.
> > And nothing happends in the display when i turn the vfo, i am
> > thankful if someone have an idea what coz this problem
> >
> > Regards
> >
> > Tom Kristiansen
> > LA5TSA
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> Hello Tom,
>
> It sound like you have no VFO signal reaching the micro-controller - I
> don't have a diagram available at the moment so can't give you
> references but check the voltages on the VFO transistor, the buffer
> transistor and amplifier which feeds the micro.
>
> Can you tune anything in?
>
> Regards,
> Steve G6ALU
>
Hi Steve, i have done some measurements on all the transistors and IC1-IC4, used a battery with 12,8V when i measured.Only measured in receive mode thats becouse i dont have an mic/ptt ready yet.

I used the voltages tables as refrence, IC1 had: Pin1 1,36v, pin2 0v, pin3 0v, pin4 0v, pin5 6,4v, pin6 12,4v, pin7 6,3v, pin8 1,35v
On IC2 i measured 0,92v on pin 9 all other pin was ok.
IC3 had 12,2v on pin1, 0v on pin2 and 5v on pin3
IC4 had 12,4v on pin1 , 0v on pin2, 7,9v on pin3
Seems like most of the transistors from Q11-Q19 are lower in voltages than in the voltages

tables.
I have it all written down so if u need to now the voltages on some of them i have them.
And no i cant tune anything, hope this can help to find out whats wrong

Regards

Tom Kristiansen

2498. Re: [mkars80] Re: First start up of the radio

Yahoo group: mkars80
Date: 2012-03-01 19:59:00 UTC
From: Steve Drury
Topic: 2495 Message: 2498

Hi Tom,

Don't worry about measurements that are a few % out.

It doesn't sound as though the VFO is oscillating, check for dry joints,
solder splashes etc around the VFO - C59 and associated components.
Check that the wire on the VFO coil L5 "tinned" properly when you
soldered it in.

Let us know your progress.

Steve G6ALU

On 01/03/2012 19:27, thomyhancroft wrote:
> Hi Steve, i have done some measurements on all the transistors and IC1-IC4, used a battery with 12,8V when i measured.Only measured in receive mode thats becouse i dont have an mic/ptt ready yet.
>
> I used the voltages tables as refrence, IC1 had: Pin1 1,36v, pin2 0v,
> pin3 0v, pin4 0v, pin5 6,4v, pin6 12,4v, pin7 6,3v, pin8 1,35v
> On IC2 i measured 0,92v on pin 9 all other pin was ok.
> IC3 had 12,2v on pin1, 0v on pin2 and 5v on pin3
> IC4 had 12,4v on pin1 , 0v on pin2, 7,9v on pin3
> Seems like most of the transistors from Q11-Q19 are lower in voltages than in the voltages tables.
> I have it all written down so if u need to now the voltages on some of them i have them.
> And no i cant tune anything, hope this can help to find out whats wrong
>
> Regards
>
> Tom Kristiansen

2499. Re: First start up of the radio

Yahoo group: mkars80
Date: 2012-03-02 00:41:43 UTC
From: thomyhancroft
Topic: 2495 Message: 2499

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Hi Tom,
>
> Don't worry about measurements that are a few % out.
>
> It doesn't sound as though the VFO is oscillating, check for dry joints,
> solder splashes etc around the VFO - C59 and associated components.
> Check that the wire on the VFO coil L5 "tinned" properly when you
> soldered it in.
>
> Let us know your progress.
>
> Steve G6ALU
>
> On 01/03/2012 19:27, thomyhancroft wrote:
> > Hi Steve, i have done some measurements on all the transistors and IC1-IC4, used a battery with 12,8V when i measured.Only measured in receive mode thats becouse i dont have an mic/ptt ready yet.
> >
> > I used the voltages tables as refrence, IC1 had: Pin1 1,36v, pin2 0v,
> > pin3 0v, pin4 0v, pin5 6,4v, pin6 12,4v, pin7 6,3v, pin8 1,35v
> > On IC2 i measured 0,92v on pin 9 all other pin was ok.
> > IC3 had 12,2v on pin1, 0v on pin2 and 5v on pin3
> > IC4 had 12,4v on pin1 , 0v on pin2, 7,9v on pin3
> > Seems like most of the transistors from Q11-Q19 are lower in voltages than in the voltages tables.
> > I have it all written down so if u need to now the voltages on some of them i have them.
> > And no i cant tune anything, hope this can help to find out whats wrong
> >
> > Regards
> >
> > Tom Kristiansen
>

Hi

Yes it was the L5 that i had to resolder so now i can tune the band but the noise is very low even if i turn the rf gain fully clockwise. I cant hear any diffrence at all when i turn the rf gain up or down, more bad soldering maybe ?

Tom Kristiansen
LA5TSA

2500. Re: [mkars80] Re: First start up of the radio

Yahoo group: mkars80
Date: 2012-03-02 06:56:14 UTC
From: Steve Drury
Topic: 2495 Message: 2500

Tom,

IfL5 was bad I would be sure some of the other transformers have the
same problem

Find yourself a very hot soldering iron and try to resolder them - note
though that the background noise is only just audible with no antenna
fitted.

Steve G6ALU

On 02/03/2012 00:41, thomyhancroft wrote:
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> Hi Tom,
>>
>> Don't worry about measurements that are a few % out.
>>
>> It doesn't sound as though the VFO is oscillating, check for dry joints,
>> solder splashes etc around the VFO - C59 and associated components.
>> Check that the wire on the VFO coil L5 "tinned" properly when you
>> soldered it in.
>>
>> Let us know your progress.
>>
>> Steve G6ALU
>>
>> On 01/03/2012 19:27, thomyhancroft wrote:
>>> Hi Steve, i have done some measurements on all the transistors and IC1-IC4, used a
battery with 12,8V when i measured.Only measured in receive mode thats becouse i dont have
an mic/ptt ready yet.
>>>
>>> I used the voltages tables as refrence, IC1 had: Pin1 1,36v, pin2 0v,
>>> pin3 0v, pin4 0v, pin5 6,4v, pin6 12,4v, pin7 6,3v, pin8 1,35v
>>> On IC2 i measured 0,92v on pin 9 all other pin was ok.
>>> IC3 had 12,2v on pin1, 0v on pin2 and 5v on pin3
>>> IC4 had 12,4v on pin1 , 0v on pin2, 7,9v on pin3
>>> Seems like most of the transistors from Q11-Q19 are lower in voltages than in the
voltages tables.
>>> I have it all written down so if u need to now the voltages on some of them i have
them.
>>> And no i cant tune anything, hope this can help to find out whats wrong
>>>
>>> Regards
>>>
>>> Tom Kristiansen

> Hi
>
> Yes it was the L5 that i had to resolder so now i can tune the band but the noise is very low even if i turn the rf gain fully clockwise. I cant hear any diffrence at all when i turn the rf gain up or down, more bad soldering maybe ?
>
> Tom Kristiansen
> LA5TSA
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4844 - Release Date: 03/01/12
>
>

2501. Power supply

Yahoo group: mkars80
Date: 2012-03-04 22:42:54 UTC
From: srleeman@btinternet.com
Topic: 2501 Message: 2501

Nearly there Steve! As I really did start from scratch, I only possess an AMU (kit) and a multimeter. Can you recommend where to get a suitable antenna and what kind, also a power supply and microphone (all cheap!)? I have been searching the Internet but there is so much out there to choose from.
Steve

2502. Short circuit!

Yahoo group: mkars80
Date: 2012-03-05 13:47:59 UTC
From: srleeman@btinternet.com
Topic: 2502 Message: 2502

Well there goes all the hard work. I carried out the very first test, before any power applied, the test where we apply positive lead to supply positive and negative lead to ground...and there's a short circuit!
I love the construction side, but I don't have the skill set for diagnostics.

I hope you can help me sort this out. You can imagine how disappointing it is. I won't be able to power up until this is sorted.

Stephen

2503. Re: [mkars80] Short circuit!

Yahoo group: mkars80
Date: 2012-03-05 14:05:57 UTC
From: steve@radio-kits.co.uk
Topic: 2502 Message: 2503

On 05.03.2012 13:47, srleeman@... wrote:
> Well there goes all the hard work. I carried out the very first
> test, before any power applied, the test where we apply positive lead
> to supply positive and negative lead to ground...and there's a short
> circuit!
> I love the construction side, but I don't have the skill set for
> diagnostics.
>
> I hope you can help me sort this out. You can imagine how
> disappointing it is. I won't be able to power up until this is
> sorted.
>
> Stephen
>

Don't panic!

Check that the washers under the nuts on the potentiometers haven't shorted tracks out - it is OK to remove these serated washers. Unfortunately the control on the washer dimensions isn't what it could be.

Apart from that check the RF transistor tab isn't shorting on anything.

You can return the kit to me for service but I can't promiss a quick turn-round.

Steve G6ALU

2504. Re: Short circuit!

Yahoo group: mkars80
Date: 2012-03-05 14:38:10 UTC
From: srleeman@btinternet.com
Topic: 2502 Message: 2504

--- In mkars80@..., steve@... wrote:
>
> On 05.03.2012 13:47, srleeman@... wrote:
> > Well there goes all the hard work. I carried out the very first
> > test, before any power applied, the test where we apply positive lead
> > to supply positive and negative lead to ground...and there's a short
> > circuit!
> > I love the construction side, but I don't have the skill set for
> > diagnostics.
> >
> > I hope you can help me sort this out. You can imagine how
> > disappointing it is. I won't be able to power up until this is
> > sorted.
> >
> > Stephen
> >
>
>
> Don't panic!
>
> Check that the washers under the nuts on the potentiometers haven't
> shorted tracks out - it is OK to remove these serated washers.
> Unfortunately the control on the washer dimensions isn't what it could
> be.
>
> Apart from that check the RF transistor tab isn't shorting on anything.
>
> You can return the kit to me for service but I can't promiss a quick
> turn-round.
>
> Steve G6ALU
>

Thanks, Steve, I'll have a look. Meantime

I just check the schematic and tried to read diode D3....it is shorting in both directions where the other littler ones are not.

Could it be diode D3? Is it fair of me to ask you to send another hopefully with the package you are sending today.

Thanks
Steve

2505. Re: Short circuit!

Yahoo group: mkars80
Date: 2012-03-05 15:30:00 UTC
From: srleeman@btinternet.com
Topic: 2502 Message: 2505

--- In mkars80@..., "srleeman@..." <srleeman@...> wrote:
>
>
>
> --- In mkars80@..., steve@ wrote:
> >
> > On 05.03.2012 13:47, srleeman@ wrote:
> > > Well there goes all the hard work. I carried out the very first
> > > test, before any power applied, the test where we apply positive lead
> > > to supply positive and negative lead to ground...and there's a short
> > > circuit!
> > > I love the construction side, but I don't have the skill set for
> > > diagnostics.
> > >
> > > I hope you can help me sort this out. You can imagine how
> > > disappointing it is. I won't be able to power up until this is
> > > sorted.
> > >
> > > Stephen
> > >
> >
> >
> > Don't panic!
> >
> > Check that the washers under the nuts on the potentiometers haven't
> > shorted tracks out - it is OK to remove these serated washers.
> > Unfortunately the control on the washer dimensions isn't what it could
> > be.
> >
> > Apart from that check the RF transistor tab isn't shorting on anything.
> >
> > You can return the kit to me for service but I can't promiss a quick
> > turn-round.
> >
> > Steve G6ALU
> >
>
>
> Thanks, Steve, I'll have a look. Meantime
>
> I just check the schematic and tried to read diode D3....it is shorting in both
directions where the other littler ones are not.
>
> Could it be diode D3? Is it fair of me to ask you to send another hopefully with the
package you are sending today.

>
> Thanks
> Steve
>
It isn't diode D3 just removed it from the circuit, reads fine

2506. Low cost power supplies and dummy loads

Yahoo group: mkars80
Date: 2012-03-06 12:15:59 UTC
From: hamlab3
Topic: 2506 Message: 2506

Is any one using a low cost power supply for the MKARS80, perhaps a wall wart or similar - interested in your experiances.

How about a low cost dummy load - not too hard to build with a bunch of resistors but is there any low cost commercial part out there?

Steve G6ALU

2507. RE: [mkars80] Low cost power supplies and dummy loads

Yahoo group: mkars80
Date: 2012-03-06 12:57:04 UTC
From: Simon McGraw
Topic: 2506 Message: 2507

Hi

I built one of these which seems to work very well

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf
Of hamlab3
Sent: 06 March 2012 12:16
To: mkars80@...
Subject: [mkars80] Low cost power supplies and dummy loads

Is any one using a low cost power supply for the MKARS80, perhaps a wall
wart or similar - interested in your experiances.

How about a low cost dummy load - not too hard to build with a bunch of
resistors but is there any low cost commercial part out there?

Steve G6ALU

[Non-text portions of this message have been removed]

2508. RE: [mkars80] Low cost power supplies and dummy loads

Yahoo group: mkars80
Date: 2012-03-06 12:58:35 UTC
From: Simon McGraw
Topic: 2506 Message: 2508

Sorry, attachments don't work...

QRP Power Meter and Dummy Load

Steve Yates - AA5TB

AA5TB Meter Photo 1

HOME <http://www.aa5tb.com/index.html>

E-mail <http://www.aa5tb.com/e_mail.html>
Last Update: June 14, 2010

Many years ago I acquired a antique field strength meter and probe kit that did not function. However, the meter had a fast response time and a good enclosure and I thought it would make a good piece of test equipment. I designed the following circuit around what I had and it has worked out well for me.

The schematic below is of my QRP power meter and dummy (50 Ohm) load combination. The 50 Ohm load consist of resistors R2 through R5. The four 200 Ohm resistors in parallel combine to make 50 Ohms. I used four resistors because this minimizes the component lead inductance of the resistors as well as distributing the power dissipation. The meter is simply a current meter with a known internal resistance configured as an RF voltmeter. D1 rectifies the RF voltage across the load resistors and C1 charges to the peak of this rectified voltage. The capacitance of C1 is chosen so that the time constant of the RC circuit consisting of C1, R1 and the meter's resistance is long compared to the RF cycle. R1 is chosen so that when the RF power applied is 5 Watts the meter reads full scale.

QRP Power Meter and Dummy Load Schematic

The calculations are as follows:

Calculations

The internal resistance (Rm) can be found by constructing the simple circuit below and performing the following calculations:

Internal Meter Resistance

Adjust R until the meter reads it's full scale value. Be sure to start with R at it's maximum value to prevent damage to the meter. Solve the following equation to find the meter's internal resistance.

Internal Meter Resistance calculation

The formulae below are to convert the reading on the microampere meter to watts and back. Please note that the possible error caused by the diode's nonlinear response below about 100 mW has been ignored. The scale in the region of tens of milliwatts could be calibrated against a known calibrated power meter or signal source if desired. For more information regarding the very low power measurements with a diode detector you may want to check out <http://epic.mcmaster.ca/~elmer101/sqlaw/sqlaw.html> "Square Law Diode Detectors in 50 ohm Systems" presented by Glen, VE3DNL.

Power Calculations

Current to QRP Power Conversion Chart

Current to QRPp Power Conversion Chart

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Simon McGraw
Sent: 06 March 2012 12:57
To: mkars80@...
Subject: RE: [mkars80] Low cost power supplies and dummy loads

Hi

I built one of these which seems to work very well

Simon

From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>] On
Behalf
Of hamlab3
Sent: 06 March 2012 12:16
To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
Subject: [mkars80] Low cost power supplies and dummy loads

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How about a low cost dummy load - not too hard to build with a bunch of resistors but is there any low cost commercial part out there?

Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2509. RE: [mkars80] Low cost power supplies and dummy loads

Yahoo group: mkars80
Date: 2012-03-06 13:04:34 UTC
From: Simon McGraw
Topic: 2506 Message: 2509

3rd time lucky..here's the webpage for a qrp dummy load and power meter.

http://www.aa5tb.com/qrpmeter.html

You can just make the dummy load without the power meter bit too.

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Simon McGraw
Sent: 06 March 2012 12:59
To: mkars80@...
Subject: RE: [mkars80] Low cost power supplies and dummy loads

Sorry, attachments don't work...

QRP Power Meter and Dummy Load

Steve Yates - AA5TB

AA5TB Meter Photo 1

HOME <http://www.aa5tb.com/index.html>

E-mail <http://www.aa5tb.com/e_mail.html>
Last Update: June 14, 2010

Many years ago I acquired a antique field strength meter and probe kit that did not function. However, the meter had a fast response time and a good enclosure and I thought it would make a good piece of test equipment. I designed the following circuit around what I had and it has worked out well for me.

The schematic below is of my QRP power meter and dummy (50 Ohm) load combination. The 50 Ohm load consist of resistors R2 through R5. The four 200 Ohm resistors in parallel combine to make 50 Ohms. I used four resistors because this minimizes the component lead inductance of the resistors as well as distributing the power dissipation. The meter is simply a current meter with a known internal resistance configured as an RF voltmeter. D1 rectifies the RF voltage across the load resistors and C1 charges to the peak of this rectified voltage. The capacitance of C1 is chosen so that the time constant of the RC circuit consisting of C1, R1 and the meter's resistance is long compared to the RF cycle. R1 is chosen so that when the RF power applied is 5 Watts the meter reads full scale.

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The internal resistance (Rm) can be found by constructing the simple circuit below and performing the following calculations:

Internal Meter Resistance

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Internal Meter Resistance calculation

The formulae below are to convert the reading on the microampere meter to watts and back. Please note that the possible error caused by the diode's nonlinear response below about 100 mW has been ignored. The scale in the region of tens of milliwatts could be calibrated against a known calibrated power meter or signal source if desired. For more information regarding the very low power measurements with a diode detector you may want to check out <http://epic.mcmaster.ca/~elmer101/sqlaw/sqlaw.html> "Square Law Diode Detectors in 50 ohm Systems" presented by Glen, VE3DNL.

Power Calculations

Current to QRP Power Conversion Chart

Current to QRPp Power Conversion Chart

From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>] On
Behalf
Of Simon McGraw
Sent: 06 March 2012 12:57
To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
Subject: RE: [mkars80] Low cost power supplies and dummy loads

Hi

I built one of these which seems to work very well

Simon

From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
<mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
<mailto:mkars80%40yahoogroups.co.uk>] On
Behalf
Of hamlab3
Sent: 06 March 2012 12:16

To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
<mailto:mkars80%40yahoogroups.co.uk>
Subject: [mkars80] Low cost power supplies and dummy loads

Is any one using a low cost power supply for the MKARS80, perhaps a wall wart or similar - interested in your experiances.

How about a low cost dummy load - not too hard to build with a bunch of resistors but is there any low cost commercial part out there?

Steve G6ALU

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2510. Re: Low cost power supplies and dummy loads

Yahoo group: mkars80
Date: 2012-03-06 15:31:07 UTC
From: Michael Meerman
Topic: 2506 Message: 2510

I am actually using a 12V motor-cycle battery. I picked up two of them at a RSGB ralley last year for a fiver. I happened to have a car battery charger at home already, but found that it is easy enough to charge them from the main car battery as well while driving to the /P location!
The batteries last surprisingly long and even at 10.5V I still get 4Wtts out of my MKARS80

hope this helps

73
Michael M0MPM / PA3BHF

[Non-text portions of this message have been removed]

2511. Re: Low cost power supplies and dummy loads

Yahoo group: mkars80
Date: 2012-03-06 18:48:47 UTC
From: srleeman@btinternet.com
Topic: 2506 Message: 2511

Thanks for the help guys. Steve asked this question on my behalf.
Stephen

--- In mkars80@..., "hamlab3" <steve@...> wrote:
>
> Is any one using a low cost power supply for the MKARS80, perhaps a wall wart or similar - interested in your experiances.
>
> How about a low cost dummy load - not too hard to build with a bunch of resistors but is there any low cost commercial part out there?
>
> Steve G6ALU
>

2512. Shipping time to Florida?

Yahoo group: mkars80
Date: 2012-03-07 02:36:07 UTC
From: Dave
Topic: 2512 Message: 2512

Does anyone know the time it takes make it through customs+shipping time to the US??

Thanks Dave KJ4QZN

2513. Re: [mkars80] Shipping time to Florida?

Yahoo group: mkars80
Date: 2012-03-07 08:03:50 UTC
From: steve@radio-kits.co.uk
Topic: 2512 Message: 2513

On 07.03.2012 02:36, Dave wrote:
> Does anyone know the time it takes make it through customs+shipping
> time to the US??
>
> Thanks Dave
> KJ4QZN
>

I think its normally 7 - 14 days, I'm just bagging some more up which will be available early next week.

Steve G6ALU

2514. Re: [mkars80] power supply

Yahoo group: mkars80
Date: 2012-03-07 22:41:11 UTC
From: Steve Eisenberg
Topic: 2514 Message: 2514

I use a motorcycle battery and a motorcycle-type "battery tender" to top it up.

http://www.amazon.com/gp/product/B000CITK8S/ref=pd_lpo_k2_dp_sr_1/181-8632674-8673610?pf_rd_m=ATVPDKIKX0DER&pf_rd_s=lpo-top-stripe-1&pf_rd_r=1MJVWDSRJ6WPKDE1EJ03&pf_rd_t=201&pf_rd_p=486539851&pf_rd_i=B000UK4QFA

Steve
KA1ZFY

[Non-text portions of this message have been removed]

2515. T1 through T6

Yahoo group: mkars80
Date: 2012-03-16 11:09:57 UTC
From: srleeman@btinternet.com
Topic: 2515 Message: 2515

The instructions say to use a non-acidic adhesive to fix the transformers to the PCB.

I would like to know if using a small amount of blue-tack would be suitable instead?

2516. Re: T1 through T6

Yahoo group: mkars80
Date: 2012-03-16 11:19:43 UTC
From: Michael Meerman
Topic: 2515 Message: 2516

I wouldn't bother. It only makes it more difficult if you ever need to replace any. Mine are sitting in their places just fine through their solder joints, and assuming you don't plan to play football with the box, there shouldn't be a problem.
My -non technical- opinion.
My best dx so far with the bare box: UK to Croatia, getting 55 over almost 1400km.

73's
Michael M0MPM

[Non-text portions of this message have been removed]

2517. Re: [mkars80] T1 through T6

Yahoo group: mkars80
Date: 2012-03-16 11:19:44 UTC
From: steve@radio-kits.co.uk
Topic: 2515 Message: 2517

On 16.03.2012 11:09, srleeman@... wrote:
> The instructions say to use a non-acidic adhesive to fix the
> transformers to the PCB.
>
> I would like to know if using a small amount of blue-tack would be
> suitable instead?
>
>

I have seen it used - I use the same silicon adhesive used for "scrapbooking" - just make sure it says "acid free". Cyonacrelate (sorry cant spell!) has been used but this is a bit permanent.

No doubt other suggestions will follow but I wouldn't use wax - when it gest hot it flows all over the place and its a job to solder through once pads are contaminated.

Stev G6ALU

2518. Re: T1 through T6

Yahoo group: mkars80
Date: 2012-03-16 17:14:28 UTC
From: srleeman@btinternet.com
Topic: 2515 Message: 2518

One question follows another.....what would you recommend for use as a microphone? Tried Moonraker but they didn't have anything to fit the 3.5 socket.

And thanks so far
Stephen

--- In mkars80@..., Michael Meerman <mljmeerman@...> wrote:
>
> I wouldn't bother. It only makes it more difficult if you ever need to
> replace any. Mine are sitting in their places just fine through their
> solder joints, and assuming you don't plan to play football with the box,
> there shouldn't be a problem.
> My -non technical- opinion.
> My best dx so far with the bare box: UK to Croatia, getting 55 over almost
> 1400km.
>
> 73's
> Michael M0MPM
>
>
> [Non-text portions of this message have been removed]
>

2519. Re: T1 through T6

Yahoo group: mkars80
Date: 2012-03-16 18:12:29 UTC
From: Michael Meerman
Topic: 2515 Message: 2519

I picked up an old citizenBand PTT mike at a ralley. The seller gave it to me for free! (it was the end of the day). Cut off the original plug and with a multi meter checked what wire was what and soldered on a 3 pin plug. Now I have a nice PTT mic and I get good audio reports. The mic is a bit big but who cares.

73s

Michael M0MPM

Sent from my iPhone

2520. Re: T1 through T6

Yahoo group: mkars80
Date: 2012-03-17 08:44:31 UTC
From: Carmel Morris
Topic: 2515 Message: 2520

Hi, bluetac may dry out after time. I used high-quality double-sided tape,
though a small blob of non-corrosive silicon may do just as well.

Cheers
Carmel
VK2CAR

--

Carmel Duryea Morris
http://www.thebestpaperaircraft.com
http://www.electriccarsforeveryone.com
http://hornsby-advocate.whereilive.com.au/news/story/full-charge-ahead-for-converted-83-starion/

[Non-text portions of this message have been removed]

2521. Drift

Yahoo group: mkars80
Date: 2012-03-17 11:16:28 UTC
From: mike
Topic: 2521 Message: 2521

Hey group.

My MKARS80 was built several yeas ago and it drifts and jumps.

So I read there is a fix...and I found the write up. Can I buy the correct components from someone on here in the US?

Thanks

Mike WA3O

2522. Re: [mkars80] Drift

Yahoo group: mkars80
Date: 2012-03-17 12:30:47 UTC
From: Steve Drury
Topic: 2521 Message: 2522

Does yours have green mylar or brown ceramic capacitors in the VFO (C59 and C60)?

Steve G6ALU

On 17/03/2012 11:16, mike wrote:
> Hey group.
>
> My MKARS80 was built several yeas ago and it drifts and jumps.
>
> So I read there is a fix...and I found the write up. Can I buy the correct components from someone on here in the US?
>
> Thanks
>
> Mike WA3O
>
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4875 - Release Date: 03/16/12
>
>

2523. First Time Power up

Yahoo group: mkars80
Date: 2012-03-17 17:12:13 UTC
From: srleeman@btinternet.com
Topic: 2523 Message: 2523

I finally got to power up today, after the initial ohms and voltage checks.

But I only have a dummy load and I wondered if that would affect the adjustment of frequency. I can only get C37 to adjust down to 3.905 and no lower, where the suggestion is for 3.45. I can get over the top of the band to 4.02.

Am I missing an adjustment or do I need an actual antenna to adjust properly. Every thing else seems ok thus far, and I am working on a home made antenna.

Any help would be appreciated.

2524. Re: [mkars80] First Time Power up

Yahoo group: mkars80
Date: 2012-03-17 17:31:17 UTC
From: Steve Drury
Topic: 2523 Message: 2524

Hi,

Try and count the turns on L5, there may be too many.

Steve G6ALU

On 17/03/2012 17:12, srleeman@... wrote:
> I finally got to power up today, after the initial ohms and voltage checks.
>
> But I only have a dummy load and I wondered if that would affect the adjustment of frequency. I can only get C37 to adjust down to 3.905 and no lower, where the suggestion is for 3.45. I can get over the top of the band to 4.02.
>
> Am I missing an adjustment or do I need an actual antenna to adjust properly. Every thing else seems ok thus far, and I am working on a home made antenna.
>
> Any help would be appreciated.
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4875 - Release Date: 03/16/12
>
>

2525. Re: First Time Power up

Yahoo group: mkars80
Date: 2012-03-17 17:49:01 UTC
From: srleeman@btinternet.com
Topic: 2523 Message: 2525

My bad Steve...I got confused and wasn't using C38, just C37 front and back. Once I could get into C38 it varied the freq as required.

So it is working fine and adjusted to the right freq. Can't do any more till I get my antenna up.

Sorry, but thanks for reply.

--- In mkars80@..., "srleeman@..." <srleeman@...> wrote:
>
> I finally got to power up today, after the initial ohms and voltage checks.
>
> But I only have a dummy load and I wondered if that would affect the adjustment of frequency. I can only get C37 to adjust down to 3.905 and no lower, where the suggestion is for 3.45. I can get over the top of the band to 4.02.
>
> Am I missing an adjustment or do I need an actual antenna to adjust properly. Every thing else seems ok thus far, and I am working on a home made antenna.
>
> Any help would be appreciated.
>

2526. Re: [mkars80] Re: T1 through T6

Yahoo group: mkars80
Date: 2012-03-17 22:42:46 UTC
From: Steve Drury
Topic: 2515 Message: 2526

Most of us use the a desktop microphone intended for PC use, you have to rewire and replace the 3.5mm connector though as the switch on a PC microphone just disconnects the microphone and we need it to connect ground to the PTT line.

Steve G6ALU

On 16/03/2012 17:14, srleeman@... wrote:
> One question follows another.....what would you recommend for use as a microphone? Tried Moonraker but they didn't have anything to fit the 3.5 socket.
>
> And thanks so far
> Stephen
>
> --- In mkars80@..., Michael Meerman<mljmeerman@...> wrote:
>> I wouldn't bother. It only makes it more difficult if you ever need to
>> replace any. Mine are sitting in their places just fine through their
>> solder joints, and assuming you don't plan to play football with the box,
>> there shouldn't be a problem.
>> My -non technical- opinion.
>> My best dx so far with the bare box: UK to Croatia, getting 55 over almost
>> 1400km.
>>
>> 73's
>> Michael M0MPM
>>
>>
>> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4874 - Release Date: 03/16/12
>

>

2527. Re: Drift

Yahoo group: mkars80
Date: 2012-03-18 15:25:29 UTC
From: mike
Topic: 2521 Message: 2527

Steve,

I just looked mine are Green mylar.

Thanks

Mike WA3O

--- In mkars80@..., "mike" <mikeymustang2000@...> wrote:
>
> Hey group.
>
> My MKARS80 was built several yeas ago and it drifts and jumps.
>
> So I read there is a fix...and I found the write up. Can I buy the correct components from someone on here in the US?
>
> Thanks
>
> Mike WA3O
>

2528. Re: [mkars80] Re: Drift

Yahoo group: mkars80
Date: 2012-03-18 15:31:59 UTC
From: Steve Drury
Topic: 2521 Message: 2528

OK, changing them to 1nF NP0 / COG types will make a significant
difference. There is also an update to the micro code (V2.4) - you can
either update this yourself if you have acces to a PIC programmer (code
on my website) or I can send you a new PIC and capacitors for GBP 5.00.

Regards,
Steve G6ALU

On 18/03/2012 15:25, mike wrote:
> Steve,
>
> I just looked mine are Green mylar.
>
> Thanks
>
> Mike WA3O
>
> --- In mkars80@..., "mike"<mikeymustang2000@...> wrote:
>> Hey group.
>>
>> My MKARS80 was built several yeas ago and it drifts and jumps.
>>
>> So I read there is a fix...and I found the write up. Can I buy the correct components
from someone on here in the US?
>>
>> Thanks
>>
>> Mike WA3O
>>
>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4877 - Release Date: 03/17/12
>

>

2529. Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-21 13:53:19 UTC
From: srleeman@btinternet.com
Topic: 1944 Message: 2529

I can get a ptt microphone with either 4 or 6 pin Din plug, but I cant find an adapter for it to 3.5 mono plug necessary.

I hope someone can tell me how to wire my own 3.5 mono plug onto the 4/6 pin Din.

Reason I'm asking I tried to rewire a pc mic, but it had no PTT and what I tried didn't work.

Thanks in advance
Stephen

2530. Re: [mkars80] Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-21 20:09:47 UTC
From: Steve Drury
Topic: 1944 Message: 2530

I have just ordered some cheap desk mikes but will need to asses them
before releasing for sale, this will be next week before complete as I
have commitments to complete first.

Steve G6ALU

On 21/03/2012 13:53, srleeman@... wrote:
> I can get a ptt microphone with either 4 or 6 pin Din plug, but I cant find an adapter for it to 3.5 mono plug necessary.
>
> I hope someone can tell me how to wire my own 3.5 mono plug onto the 4/6 pin Din.
>
> Reason I'm asking I tried to rewire a pc mic, but it had no PTT and what I tried didn't work.
>
> Thanks in advance
> Stephen
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4883 - Release Date: 03/20/12
>
>

2531. Re: [mkars80] Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-22 10:29:59 UTC
From: PHILLIP WEAVER
Topic: 1944 Message: 2531

Hi Stephen If you get a socket to match the mic plug. Then wire the PTT and MIC at the back were appropriate to the mic. All you need to know is the pins on the mic. Then you got the audio and ptt in one go Phillip
--- On Wed, 21/3/12, srleeman@... <srleeman@...> wrote:

From: srleeman@... <srleeman@...>
Subject: [mkars80] Microphone for MKARS80
To: mkars80@...
Date: Wednesday, 21 March, 2012, 13:53

I can get a ptt microphone with either 4 or 6 pin Din plug, but I cant find an adapter for it to 3.5 mono plug necessary.

I hope someone can tell me how to wire my own 3.5 mono plug onto the 4/6 pin Din.

Reason I'm asking I tried to rewire a pc mic, but it had no PTT and what I tried didn't work.

Thanks in advance
Stephen

[Non-text portions of this message have been removed]

2532. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-23 16:16:39 UTC
From: srleeman@btinternet.com
Topic: 1944 Message: 2532

Hi Steve,

I went out a bought the maplin mic and thought it would be a cinch using the picture in the group files, as you suggested.

It isn't clear to a novice like me where you want to place the 22k resistor, I know it is supposed to be in series with mic+ but I cannot get it to work. Also, you don't mention on the picture whether to remove the capacitor that comes with the mic. It isn't in the photo, but it doesn't say in the wording to remove it.

And is that the 22k that is in the picture, because it didn't come with the mike but the color code is wrong for 22k.

I would appreciate some help, as I am getting frustrated not being able to use the transmit function.

Thanks
Steve

--- In mkars80@..., Steve Bell <listsmail@...> wrote:
>
> I use a Maplin QT21X mic with ptt switch, and modified it as in the
> MKARS80 Yahoo Group files section. The only thing I've noted is the
> lead could do with being a little longer.
>
> Steve 2E0SGB
>
> On 20 Mar 2011, at 12:51, Bengt Johansson wrote:
> > Thanks for the info, but I have to attach an outside S/M switch.
> > Maybe I am asking for something that does'nt exist, i.e. with an
> > built-in S/M swiitch?
> >
> > [Non-text portions of this message have been removed]
>

2533. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-23 18:56:05 UTC
From: Mark
Topic: 1944 Message: 2533

Hi Steve,

That must be frustrating! If you want, you can skip the high pass filter (the resistor and capacitor) and just connect up the mic capsule and switch properly and everything should work fine. You can add in the filter later once you get talking and have other ops give you their opinion of the sound.

This is my first posting here. The kit looks very nice and there are many nice looking rigs in the pictures section here! I've built a bitx20 ver3 but the case is not quite complete yet.

Cheers to all and have a great evening!

Mark/n7eku

--- In mkars80@..., "srleeman@..." <srleeman@...> wrote:
>
> Hi Steve,
>
> I went out a bought the maplin mic and thought it would be a cinch using the picture in the group files, as you suggested.
>
> It isn't clear to a novice like me where you want to place the 22k resistor, I know it is supposed to be in series with mic+ but I cannot get it to work. Also, you don't mention on the picture whether to remove the capacitor that comes with the mic. It isn't in the photo, but it doesn't say in the wording to remove it.
>
> And is that the 22k that is in the picture, because it didn't come with the mike but the color code is wrong for 22k.
>
> I would appreciate some help, as I am getting frustrated not being able to use the transmit function.
>
> Thanks
> Steve
>
> --- In mkars80@..., Steve Bell <listsmail@> wrote:
> >
> > I use a Maplin QT21X mic with ptt switch, and modified it as in the
> > MKARS80 Yahoo Group files section. The only thing I've noted is the
> > lead could do with being a little longer.
> >
> > Steve 2E0SGB
> >
> > On 20 Mar 2011, at 12:51, Bengt Johansson wrote:
> > > Thanks for the info, but I have to attach an outside S/M switch.

> > > Maybe I am asking for something that does'nt exist, i.e. with an
> > > built-in S/M swiitch?
> > >
> > > [Non-text portions of this message have been removed]
> >
>

2534. Re: [mkars80] Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-23 21:26:40 UTC
From: steve@radio-kits.co.uk
Topic: 2534 Message: 2534

I'm away for a couple of days, when I' m back I will try and help. Steve

----- Reply message -----
From: "srleeman@..." <srleeman@...>
To: <mkars80@...>
Subject: [mkars80] Re: Microphone for MKARS80
Date: Fri, Mar 23, 2012 16:16

Hi Steve,

I went out a bought the maplin mic and thought it would be a cinch using the picture in the group files, as you suggested.

It isn't clear to a novice like me where you want to place the 22k resistor, I know it is supposed to be in series with mic+ but I cannot get it to work. Also, you don't mention on the picture whether to remove the capacitor that comes with the mic. It isn't in the photo, but it doesn't say in the wording to remove it.

And is that the 22k that is in the picture, because it didn't come with the mike but the color code is wrong for 22k.

I would appreciate some help, as I am getting frustrated not being able to use the transmit function.

Thanks
Steve

--- In mkars80@..., Steve Bell <listsmail@...> wrote:
>
> I use a Maplin QT21X mic with ptt switch, and modified it as in the
> MKARS80 Yahoo Group files section. The only thing I've noted is the
> lead could do with being a little longer.
>
> Steve 2E0SGB
>
> On 20 Mar 2011, at 12:51, Bengt Johansson wrote:
> > Thanks for the info, but I have to attach an outside S/M switch.
> > Maybe I am asking for something that does'nt exist, i.e. with an
> > built-in S/M swiitch?
> >
> > [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2535. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-24 14:28:31 UTC
From: srleeman@btinternet.com
Topic: 1944 Message: 2535

Thanks a lot Mark, I'll
give it a try. Just today I came by two "normal" mikes one with nine pins, one female with but I wouldn't know how to wire them up. Do you? I'll search the net as well

By the way this is an excellent site, and host is a great guy and really helpful.

Lastly, I guess you get to be the first to know....I passed my foundation exam today...one small step...one giant leap...

73s
Steve

--- In mkars80@..., "Mark" <mark7311@...> wrote:
>
> Hi Steve,
>
> That must be frustrating! If you want, you can skip the high pass filter (the resistor and capacitor) and just connect up the mic capsule and switch properly and everything should work fine. You can add in the filter later once you get talking and have other ops give you their opinion of the sound.
>
> This is my first posting here. The kit looks very nice and there are many nice looking rigs in the pictures section here! I've built a bitx20 ver3 but the case is not quite complete yet.
>
> Cheers to all and have a great evening!
>
>
> Mark/n7eku
>
> --- In mkars80@..., "srleeman@" <srleeman@> wrote:
> >
> > Hi Steve,
> >
> > I went out a bought the maplin mic and thought it would be a cinch using the picture in the group files, as you suggested.
> >
> > It isn't clear to a novice like me where you want to place the 22k resistor, I know it is supposed to be in series with mic+ but I cannot get it to work. Also, you don't mention on the picture whether to remove the capacitor that comes with the mic. It isn't in the photo, but it doesn't say in the wording to remove it.
> >
> > And is that the 22k that is in the picture, because it didn't come with the mike but the color code is wrong for 22k.
> >
> > I would appreciate some help, as I am getting frustrated not being able to use the

transmit function.
> >
> > Thanks
> > Steve
> >
> > --- In mkars80@..., Steve Bell <listsmail@> wrote:
> > >
> > > I use a Maplin QT21X mic with ptt switch, and modified it as in the
> > > MKARS80 Yahoo Group files section. The only thing I've noted is the
> > > lead could do with being a little longer.
> > >
> > > Steve 2E0SGB
> > >
> > > On 20 Mar 2011, at 12:51, Bengt Johansson wrote:
> > > > Thanks for the info, but I have to attach an outside S/M switch.
> > > > Maybe I am asking for something that does'nt exist, i.e. with an
> > > > built-in S/M swiitch?
> > > >
> > > > [Non-text portions of this message have been removed]
> > >
> >
>

2536. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-25 17:12:31 UTC
From: Mark
Topic: 1944 Message: 2536

A big congrats and pat on the back Steve :-)

Well done! I still remember when I passed mine -- I was very nervous, but happy I could do the theory tests well and could pass the Morse code test.

Most of the standard rig mikes are either unpowered low output, or battery or line powered high output ones -- it pretty much depends upon the age of the mic. I don't imagine the mkars mike amp is set up for low powered ones, but the other types should work fine. Battery powered ones will need to have the resistor set up to give power to the electret capsule removed, line-powered ones could be set up to use this power if wired correctly.

Yep, you'll have to search to web a bit to find the pinouts for the mics. If they are name brand ones from a rig manufacturer that should be easier.

Cheers and congrats again on your test :-)

73s,

Mark/n7eku

--- In mkars80@..., "srleeman@..." <srleeman@...> wrote:
>
> Thanks a lot Mark, I'll
> give it a try. Just today I came by two "normal" mikes one with nine pins, one female with but I wouldn't know how to wire them up. Do you? I'll search the net as well
>
> By the way this is an excellent site, and host is a great guy and really helpful.
>
> Lastly, I guess you get to be the first to know....I passed my foundation exam today...one small step...one giant leap...
>
> 73s
> Steve

2537. mkars tuning

Yahoo group: mkars80
Date: 2012-03-26 03:46:59 UTC
From: ozman926
Topic: 2537 Message: 2537

I am building the mkars80 and finally completed it to the point that I am calibrating the tuning. I can't get it to go down to 3.450. It will only go down to 4.076. Can anyone tell me what I have done wrong and what I need to do to correct it? Thanks, Larry

2538. CW board low voltage at test point

Yahoo group: mkars80
Date: 2012-03-26 08:09:15 UTC
From: simonmcgraw@btinternet.com
Topic: 2538 Message: 2538

Hi Steve
do you have a voltage table for the cw board please?
I can get an audible output but it only about 1.6v p-p at the test point where it should be 4v p-p.
Many thanks

Simon

2539. Re: [mkars80] mkars tuning

Yahoo group: mkars80
Date: 2012-03-26 11:27:58 UTC
From: steve@radio-kits.co.uk
Topic: 2537 Message: 2539

On 26.03.2012 04:46, ozman926 wrote:
> I am building the mkars80 and finally completed it to the point that
> I am calibrating the tuning. I can't get it to go down to 3.450. It
> will only go down to 4.076. Can anyone tell me what I have done
> wrong
> and what I need to do to correct it? Thanks, Larry
>
>

First, are you adjusting the tuning range with the orange trimmer? The most likely cause is too many turns on the VFO inductor - see if you can count them.

Steve G6ALU

2540. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-26 12:47:05 UTC
From: Philip
Topic: 1944 Message: 2540

Congrats on the pass Steve...
Well done!

73s Philip G4JVF

--- In mkars80@..., "srleeman@..." <srleeman@...> wrote:
>
> Thanks a lot Mark, I'll
> give it a try. Just today I came by two "normal" mikes one with nine pins, one female with but I wouldn't know how to wire them up. Do you? I'll search the net as well
>
> By the way this is an excellent site, and host is a great guy and really helpful.
>
> Lastly, I guess you get to be the first to know....I passed my foundation exam today...one small step...one giant leap...
>
> 73s
> Steve
>
>
> --- In mkars80@....uk, "Mark" <mark7311@> wrote:
> >
> > Hi Steve,
> >
> > That must be frustrating! If you want, you can skip the high pass filter (the resistor and capacitor) and just connect up the mic capsule and switch properly and everything should work fine. You can add in the filter later once you get talking and have other ops give you their opinion of the sound.
> >
> > This is my first posting here. The kit looks very nice and there are many nice looking rigs in the pictures section here! I've built a bitx20 ver3 but the case is not quite complete yet.
> >
> > Cheers to all and have a great evening!
> >
> >
> > Mark/n7eku
> >
> > --- In mkars80@..., "srleeman@" <srleeman@> wrote:
> > >
> > > Hi Steve,
> > >
> > > I went out a bought the maplin mic and thought it would be a cinch using the picture in the group files, as you suggested.
> > >

> > > It isn't clear to a novice like me where you want to place the 22k resistor, I know it is supposed to be in series with mic+ but I cannot get it to work. Also, you don't mention on the picture whether to remove the capacitor that comes with the mic. It isn't in the photo, but it doesn't say in the wording to remove it.
> > >
> > > And is that the 22k that is in the picture, because it didn't come with the mike but the color code is wrong for 22k.
> > >
> > > I would appreciate some help, as I am getting frustrated not being able to use the transmit function.
> > >
> > > Thanks
> > > Steve
> > >
> > > --- In mkars80@..., Steve Bell <listsmail@> wrote:
> > > >
> > > > I use a Maplin QT21X mic with ptt switch, and modified it as in the
> > > > MKARS80 Yahoo Group files section. The only thing I've noted is the
> > > > lead could do with being a little longer.
> > > >
> > > > Steve 2E0SGB
> > > >
> > > > On 20 Mar 2011, at 12:51, Bengt Johansson wrote:
> > > > > Thanks for the info, but I have to attach an outside S/M switch.
> > > > > Maybe I am asking for something that does'nt exist, i.e. with an
> > > > > built-in S/M swiitch?
> > > > >
> > > > > [Non-text portions of this message have been removed]
> > > >
> > > >
> > >
> >
>

2541. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-26 13:03:39 UTC
From: srleeman@btinternet.com
Topic: 1944 Message: 2541

Thanks Mark that is kind of you. I'll get my callsign later this week.

The microphones are antique CB ones with now internal power supply.

I am only working with screen, red, black and yellow.

I've tried various combinations. Only screen and red have continuity when ptt is pushed. I can get the resistance of the mic .456 ohms between yellow and red. I just don't know what to do.

But Steve here at the group is a big help, and hopefully we'll get there. I just feel kind of stupid, feeling it should be easy to sort.

73s
Stephen

--- In mkars80@..., "Mark" <mark7311@...> wrote:
>
> A big congrats and pat on the back Steve :-)
>
> Well done! I still remember when I passed mine -- I was very nervous, but happy I could do the theory tests well and could pass the Morse code test.
>
> Most of the standard rig mikes are either unpowered low output, or battery or line powered high output ones -- it pretty much depends upon the age of the mic. I don't imagine the mkars mike amp is set up for low powered ones, but the other types should work fine. Battery powered ones will need to have the resistor set up to give power to the electret capsule removed, line-powered ones could be set up to use this power if wired correctly.
>
> Yep, you'll have to search to web a bit to find the pinouts for the mics. If they are name brand ones from a rig manufacturer that should be easier.
>
> Cheers and congrats again on your test :-)
>
> 73s,
>
> Mark/n7eku
>
> --- In mkars80@..., "srleeman@" <srleeman@> wrote:
> >
> > Thanks a lot Mark, I'll
> > give it a try. Just today I came by two "normal" mikes one with nine pins, one female with but I wouldn't know how to wire them up. Do you? I'll search the net as well
> >
> > By the way this is an excellent site, and host is a great guy and really helpful.
> >

> > Lastly, I guess you get to be the first to know....I passed my foundation exam today...one small step...one giant leap...
> >
> > 73s
> > Steve
>

2542. Re: Drift

Yahoo group: mkars80
Date: 2012-03-26 19:43:09 UTC
From: Pascal
Topic: 2521 Message: 2542

Hi

The C45 : 100pF is also critical - my part was not COG , and it was a desaster, with at least a jump in each qso ! - With a COG type, the MKARS is now very stable and quiet...

Pascal F6EHP

--- In mkars80@....uk, Steve Drury <steve@...> wrote:
>
> OK, changing them to 1nF NP0 / COG types will make a significant
> difference. There is also an update to the micro code (V2.4) - you can
> either update this yourself if you have acces to a PIC programmer (code
> on my website) or I can send you a new PIC and capacitors for GBP 5.00.
>
> Regards,
> Steve G6ALU
>
> On 18/03/2012 15:25, mike wrote:
> > Steve,
> >
> > I just looked mine are Green mylar.
> >
> > Thanks
> >
> > Mike WA3O
> >
> > --- In mkars80@..., "mike"<mikeymustang2000@> wrote:
> >> Hey group.
> >>
> >> My MKARS80 was built several yeas ago and it drifts and jumps.
> >>
> >> So I read there is a fix...and I found the write up. Can I buy the correct components from someone on here in the US?
> >>
> >> Thanks
> >>
> >> Mike WA3O
> >>
> >
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2114/4877 - Release Date: 03/17/12
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>

2543. RE: [mkars80] Re: Drift

Yahoo group: mkars80
Date: 2012-03-26 20:37:12 UTC
From: David White
Topic: 2521 Message: 2543

Hello Steve, a superb demonstration of the SDR radio tonight - many thanks for that de G3ZPA

NNNN

To: mkars80@yahoogroups.co.uk
From: pascal@...
Date: Mon, 26 Mar 2012 19:43:09 +0000
Subject: [mkars80] Re: Drift

Hi

The C45 : 100pF is also critical - my part was not COG , and it was a desaster, with at least a jump in each qso ! - With a COG type, the MKARS is now very stable and quiet...

Pascal F6EHP

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> OK, changing them to 1nF NP0 / COG types will make a significant
> difference. There is also an update to the micro code (V2.4) - you can
> either update this yourself if you have acces to a PIC programmer (code
> on my website) or I can send you a new PIC and capacitors for GBP 5.00.
>
> Regards,
> Steve G6ALU
>
> On 18/03/2012 15:25, mike wrote:
> > Steve,
> >
> > I just looked mine are Green mylar.
> >
> > Thanks
> >
> > Mike WA3O
> >
> > --- In mkars80@..., "mike"<mikeymustang2000@> wrote:
> >> Hey group.
> >>
> >> My MKARS80 was built several yeas ago and it drifts and jumps.
> >>
> >> So I read there is a fix...and I found the write up. Can I buy the correct components from someone on here in the US?
> >>
> >> Thanks
> >>

> >> Mike WA3O
> >>
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> > -----
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> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2114/4877 - Release Date: 03/17/12
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>

[Non-text portions of this message have been removed]

2544. Re: [mkars80] Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-26 21:12:15 UTC
From: Steve Drury
Topic: 1944 Message: 2544

Stephen,

Ignore my private email...

If you have continuity between screen and red when the PTT is pushed
take screen to ground and red to PTT - if you hold the PTT in do you get
a "click" through the microphone when testing between screen and the
other wires? If so the wire that "clicks" is the microphone wire.

Steve G6ALU

On 26/03/2012 14:03, srleeman@... wrote:
> Thanks Mark that is kind of you. I'll get my callsign later this week.
>
> The microphones are antique CB ones with now internal power supply.
>
> I am only working with screen, red, black and yellow.
>
> I've tried various combinations. Only screen and red have continuity when ptt is pushed. I can get the resistance of the mic .456 ohms between yellow and red. I just don't know what to do.
>
> But Steve here at the group is a big help, and hopefully we'll get there. I just feel kind of stupid, feeling it should be easy to sort.
>
> 73s
> Stephen
>
> --- In mkars80@..., "Mark"<mark7311@...> wrote:
>> A big congrats and pat on the back Steve :-)
>>
>> Well done! I still remember when I passed mine -- I was very nervous, but happy I could do the theory tests well and could pass the Morse code test.
>>
>> Most of the standard rig mikes are either unpowered low output, or battery or line powered high output ones -- it pretty much depends upon the age of the mic. I don't imagine the mkars mike amp is set up for low powered ones, but the other types should work fine. Battery powered ones will need to have the resistor set up to give power to the electret capsule removed, line-powered ones could be set up to use this power if wired correctly.
>>
>> Yep, you'll have to search to web a bit to find the pinouts for the mics. If they are name brand ones from a rig manufacturer that should be easier.
>>
>> Cheers and congrats again on your test :-)
>>
>> 73s,

>>
>> Mark/n7eku
>>
>> --- In mkars80@..., "srleeman@"<srleeman@> wrote:
>>> Thanks a lot Mark, I'll
>>> give it a try. Just today I came by two "normal" mikes one with nine pins, one female with but I wouldn't know how to wire them up. Do you? I'll search the net as well
>>>
>>> By the way this is an excellent site, and host is a great guy and really helpful.
>>>
>>> Lastly, I guess you get to be the first to know....I passed my foundation exam today...one small step...one giant leap...
>>>
>>> 73s
>>> Steve
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> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4895 - Release Date: 03/26/12
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2545. Re: [mkars80] Re: Drift

Yahoo group: mkars80
Date: 2012-03-26 21:13:48 UTC
From: Steve Drury
Topic: 2521 Message: 2545

The 100pF for the VFO which I supply are (at least should be) NP0 / COG.

Steve G6ALU

On 26/03/2012 20:43, Pascal wrote:
> Hi
>
> The C45 : 100pF is also critical - my part was not COG , and it was a desaster, with at least a jump in each qso ! - With a COG type, the MKARS is now very stable and quiet...
>
> Pascal F6EHP
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> OK, changing them to 1nF NP0 / COG types will make a significant
>> difference. There is also an update to the micro code (V2.4) - you can
>> either update this yourself if you have acces to a PIC programmer (code
>> on my website) or I can send you a new PIC and capacitors for GBP 5.00.
>>
>> Regards,
>> Steve G6ALU
>>
>> On 18/03/2012 15:25, mike wrote:
>>> Steve,
>>>
>>> I just looked mine are Green mylar.
>>>
>>> Thanks
>>>
>>> Mike WA3O
>>>
>>> --- In mkars80@..., "mike"<mikeymustang2000@> wrote:
>>>> Hey group.
>>>>
>>>> My MKARS80 was built several yeas ago and it drifts and jumps.
>>>>
>>>> So I read there is a fix...and I found the write up. Can I buy the correct components from someone on here in the US?
>>>>
>>>> Thanks
>>>>
>>>> Mike WA3O
>>>>
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>>> Checked by AVG - www.avg.com
>>> Version: 2012.0.1913 / Virus Database: 2114/4877 - Release Date: 03/17/12
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4895 - Release Date: 03/26/12
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>

2546. Re: [mkars80] Re: Drift

Yahoo group: mkars80
Date: 2012-03-26 21:14:50 UTC
From: Steve Drury
Topic: 2521 Message: 2546

Thanks Dave.... longest presentation I've done!

Steve G6ALU

On 26/03/2012 21:37, David White wrote:
> Hello Steve, a superb demonstration of the SDR radio tonight - many thanks for that de G3ZPA
>
>
>
> NNNN
>
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>
> To: mkars80@...
> From: pascal@...
> Date: Mon, 26 Mar 2012 19:43:09 +0000
> Subject: [mkars80] Re: Drift
>
>
>
>
>
>
>
> Hi
>
> The C45 : 100pF is also critical - my part was not COG , and it was a desaster, with at least a jump in each qso ! - With a COG type, the MKARS is now very stable and quiet...
>
> Pascal F6EHP
>
> --- In mkars80@..., Steve Drury<steve@...> wrote:
>> OK, changing them to 1nF NP0 / COG types will make a significant
>> difference. There is also an update to the micro code (V2.4) - you can
>> either update this yourself if you have acces to a PIC programmer (code
>> on my website) or I can send you a new PIC and capacitors for GBP 5.00.
>>
>> Regards,

>> Steve G6ALU
>>
>> On 18/03/2012 15:25, mike wrote:
>>> Steve,
>>>
>>> I just looked mine are Green mylar.
>>>
>>> Thanks
>>>
>>> Mike WA3O
>>>
>>> --- In mkars80@..., "mike"<mikeymustang2000@> wrote:
>>>> Hey group.
>>>>
>>>> My MKARS80 was built several yeas ago and it drifts and jumps.
>>>>
>>>> So I read there is a fix...and I found the write up. Can I buy the correct components from someone on here in the US?
>>>>
>>>> Thanks
>>>>
>>>> Mike WA3O
>>>>
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> -----
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>

2547. Re: Microphone for MKARS80

Yahoo group: mkars80
Date: 2012-03-28 10:42:55 UTC
From: Steve
Topic: 1944 Message: 2547

Hi all,

Just thought the following might help some group members new to the hobby - a very simple way of arranging the PTT and mic connection for the MKARS80.

For me, my PC headset works very well. To avoid cutting and re-wiring the mic cable, I made a little adapter / PTT box. This way, I can unplug it and put it back in the PC for Skype etc.

The adapter / PTT box is very simple - all cheap Maplin stuff.

- Small plastic box (or a metal one if you're worried about screening)
- 3.5mm stereo socket
- 1 metre of twin core screened audio cable
- Instantaneous push switch (I chose the smallest panel mount one they had on the shelf)

With the above, the PTT and mic connections are made between the cable, PTT switch and 3.5mm socket, following Steve's instructions for wiring the mic. The cable goes through a hole in the box and connects directly to the PTT switch and 3.5mm connector.

Nice and easy, and with this you get to be able to try out many PC type mics without cutting cables, and have a nice PTT arrangement too.

For avid kit builders, this also works for the Walford Electronics kits too - as he uses the same tip and ring arrangement for his mic / PTT.

PS. The headset. I only use this through the headset socket on Steve's CW adapter kit - using it directly from the rig is not advised!!

73,

Steve MW0KST

--- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:
>
> Stephen,
>
> Ignore my private email...
>
> If you have continuity between screen and red when the PTT is pushed
> take screen to ground and red to PTT - if you hold the PTT in do you get
> a "click" through the microphone when testing between screen and the
> other wires? If so the wire that "clicks" is the microphone wire.
>
> Steve G6ALU
>
> On 26/03/2012 14:03, srleeman@... wrote:
> > Thanks Mark that is kind of you. I'll get my callsign later this week.

> >
> > The microphones are antique CB ones with now internal power supply.
> >
> > I am only working with screen, red, black and yellow.
> >
> > I've tried various combinations. Only screen and red have continuity when ptt is pushed. I can get the resistance of the mic .456 ohms between yellow and red. I just don't know what to do.
> >
> > But Steve here at the group is a big help, and hopefully we'll get there. I just feel kind of stupid, feeling it should be easy to sort.
> >
> > 73s
> > Stephen
> >
> > --- In mkars80@..., "Mark"<mark7311@> wrote:
> >> A big congrats and pat on the back Steve :-)
> >>
> >> Well done! I still remember when I passed mine -- I was very nervous, but happy I could do the theory tests well and could pass the Morse code test.
> >>
> >> Most of the standard rig mikes are either unpowered low output, or battery or line powered high output ones -- it pretty much depends upon the age of the mic. I don't imagine the mkars mike amp is set up for low powered ones, but the other types should work fine. Battery powered ones will need to have the resistor set up to give power to the electret capsule removed, line-powered ones could be set up to use this power if wired correctly.
> >>
> >> Yep, you'll have to search to web a bit to find the pinouts for the mics. If they are name brand ones from a rig manufacturer that should be easier.
> >>
> >> Cheers and congrats again on your test :-)
> >>
> >> 73s,
> >>
> >> Mark/n7eku
> >>
> >> --- In mkars80@..., "srleeman@"<srleeman@> wrote:
> >>> Thanks a lot Mark, I'll
> >>> give it a try. Just today I came by two "normal" mikes one with nine pins, one female with but I wouldn't know how to wire them up. Do you? I'll search the net as well
> >>>
> >>> By the way this is an excellent site, and host is a great guy and really helpful.
> >>>
> >>> Lastly, I guess you get to be the first to know....I passed my foundation exam today...one small step...one giant leap...
> >>>
> >>> 73s
> >>> Steve
> >
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> > No virus found in this message.
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> > Version: 2012.0.1913 / Virus Database: 2114/4895 - Release Date: 03/26/12
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2548. Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-04-02 04:28:09 UTC
From: Andreas
Topic: 2447 Message: 2548

I am no further with this problem.
Steve, do you have any idea where I can look for?
Thanks.

73 Andy DC3AFA

--- In mkars80@..., "Andreas" <andreas.fuehrmann@...> wrote:
>
> Checked all of this, but still the same problem.
> Receive with no audio 110 mA
> TX with no modulation 285 mA
> but only 350 mA max with whistling
> Strange...
>
> 73 And DC3AFA
>
> --- In mkars80@..., Steve Drury <steve@> wrote:
> >
> > Typical currents at 12V supply are as follows:
> >
> > Receive with no audio - 110mA
> > TX with no modulation - 285mA
> > TX with a whistle to produce ~ 5W - 1.05A
> >
> > These currents will differ a little depending on device characteristic,
> > tolerances etc.
> >
> > The most common reason for low TX output is poor soldering on the mixer
> > transformers T4, T5, and T6.
> >
> > On two occasions I have had cracked track in the emitter decoupling
> > circuit of the TX stage transistors Q5 and Q9. Check the track for
> > continuity around C23 / R24 and C43 / R36. This will need checking with
> > a meter as it may look OK visually, note that with this fault the DC
> > voltages will be correct.
> >
> > Cracks between track and pad can be caused by blunt side-cutters or
> > cropping more than one lead at a time which stresses the track.
> >
> > Steve G6ALU
> >
> >
> >
> >
> > On 26/02/2012 08:26, Andreas wrote:

> > > It´s the same for me.
> > > Bias current is .28 A while pressing PTT and goes to .38 A with a loud whistle.
> > > I can hear my voice in the attached loud speaker but power output is only a few hundred milli amperes and LED doesn´t extinguish...
> > >
> > > 73 Andy DC3AFA
> > >
> > >
> > >
> > > ------------------------------------
> > >
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> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.1913 / Virus Database: 2114/4831 - Release Date: 02/25/12
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>

2549. Re: [mkars80] Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-04-02 20:15:38 UTC
From: Steve Drury
Topic: 2447 Message: 2549

Andy,

Stephen is having similar problems as well, I'm going to try and help by doing a check list but it would probably help if you had an oscilloscope - do you have access to one?

Steve

On 02/04/2012 05:28, Andreas wrote:
> I am no further with this problem.
> Steve, do you have any idea where I can look for?
> Thanks.
>
> 73 Andy DC3AFA
>
> --- In mkars80@..., "Andreas"<andreas.fuehrmann@...> wrote:
>
>> Checked all of this, but still the same problem.
>> Receive with no audio 110 mA
>> TX with no modulation 285 mA
>> but only 350 mA max with whistling
>> Strange...
>>
>> 73 And DC3AFA
>>
>> --- In mkars80@..., Steve Drury<steve@> wrote:
>>> Typical currents at 12V supply are as follows:
>>>
>>> Receive with no audio - 110mA
>>> TX with no modulation - 285mA
>>> TX with a whistle to produce ~ 5W - 1.05A
>>>
>>> These currents will differ a little depending on device characteristic,
>>> tolerances etc.
>>>
>>> The most common reason for low TX output is poor soldering on the mixer
>>> transformers T4, T5, and T6.
>>>
>>> On two occasions I have had cracked track in the emitter decoupling
>>> circuit of the TX stage transistors Q5 and Q9. Check the track for
>>> continuity around C23 / R24 and C43 / R36. This will need checking with
>>> a meter as it may look OK visually, note that with this fault the DC
>>> voltages will be correct.
>>>
>>> Cracks between track and pad can be caused by blunt side-cutters or
>>> cropping more than one lead at a time which stresses the track.

>>>
>>> Steve G6ALU
>>>
>>>
>>>
>>>
>>> On 26/02/2012 08:26, Andreas wrote:
>>>> It?s the same for me.
>>>> Bias current is .28 A while pressing PTT and goes to .38 A with a loud whistle.
>>>> I can hear my voice in the attached loud speaker but power output is only a few hundred milli amperes and LED doesn?t extinguish...
>>>>
>>>> 73 Andy DC3AFA
>>>>
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>>>> Checked by AVG - www.avg.com
>>>> Version: 2012.0.1913 / Virus Database: 2114/4831 - Release Date: 02/25/12
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2114/4910 - Release Date: 04/02/12
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>
>

2550. Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-04-03 15:44:56 UTC
From: Andreas
Topic: 2447 Message: 2550

Sorry, I only have a multimeter with freq counter (up to 10 MHz) :-(

Andy

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Andy,
>
> Stephen is having similar problems as well, I'm going to try and help by
> doing a check list but it would probably help if you had an oscilloscope
> - do you have access to one?
>
> Steve
>
> On 02/04/2012 05:28, Andreas wrote:
> > I am no further with this problem.
> > Steve, do you have any idea where I can look for?
> > Thanks.
> >
> > 73 Andy DC3AFA
> >
> > --- In mkars80@..., "Andreas"<andreas.fuehrmann@> wrote:
> >
> >> Checked all of this, but still the same problem.
> >> Receive with no audio 110 mA
> >> TX with no modulation 285 mA
> >> but only 350 mA max with whistling
> >> Strange...
> >>
> >> 73 And DC3AFA
> >>
> >> --- In mkars80@..., Steve Drury<steve@> wrote:
> >>> Typical currents at 12V supply are as follows:
> >>>
> >>> Receive with no audio - 110mA
> >>> TX with no modulation - 285mA
> >>> TX with a whistle to produce ~ 5W - 1.05A
> >>>
> >>> These currents will differ a little depending on device characteristic,
> >>> tolerances etc.
> >>>
> >>> The most common reason for low TX output is poor soldering on the mixer
> >>> transformers T4, T5, and T6.
> >>>
> >>> On two occasions I have had cracked track in the emitter decoupling

> >>> circuit of the TX stage transistors Q5 and Q9. Check the track for
> >>> continuity around C23 / R24 and C43 / R36. This will need checking with
> >>> a meter as it may look OK visually, note that with this fault the DC
> >>> voltages will be correct.
> >>>
> >>> Cracks between track and pad can be caused by blunt side-cutters or
> >>> cropping more than one lead at a time which stresses the track.
> >>>
> >>> Steve G6ALU
> >>>
> >>>
> >>>
> >>>
> >>> On 26/02/2012 08:26, Andreas wrote:
> >>>> It´s the same for me.
> >>>> Bias current is .28 A while pressing PTT and goes to .38 A with a loud whistle.
> >>>> I can hear my voice in the attached loud speaker but power output is only a few
hundred milli amperes and LED doesn´t extinguish...
> >>>>
> >>>> 73 Andy DC3AFA
> >>>>
> >>>>
> >>>>
> >>>> ------------------------------------
> >>>>
> >>>> Yahoo! Groups Links
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>
> >>>> -----
> >>>> No virus found in this message.
> >>>> Checked by AVG - www.avg.com
> >>>> Version: 2012.0.1913 / Virus Database: 2114/4831 - Release Date: 02/25/12
> >>>>
> >>>>
> >>>>
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > > -----

> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2114/4910 - Release Date: 04/02/12
> >
> >
> >
>

2551. Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-04-04 07:15:19 UTC
From: hamlab3
Topic: 2447 Message: 2551

OK Andy,

I will take measurements with an RF probe, if you have done a DC voltage check and everything is in order then the problem can only be found by taking RF measurements.

RF probes are simple to make, I will do some experimentation today in preperation.

Steve G6ALU

--- In mkars80@yahoogroups.co.uk, "Andreas" <andreas.fuehrmann@...> wrote:
>
> Sorry, I only have a multimeter with freq counter (up to 10 MHz) :-(
>
> Andy

2552. Re: [mkars80] Re: Drift

Yahoo group: mkars80
Date: 2012-04-05 06:16:26 UTC
From: Christer Andersson
Topic: 2521 Message: 2552

Hi Folks!
It is an intresting thing i have named my MKARS80 the rabbit radio.
It is funny litle rig it does just the same thing as a rabbit when it feels the heat i jumps one step to the left. eg. abt 1,3 kc. I guess the huf and puf just lost the grip of things.
The advantage of this is that it has teached me to make short calls hi hi.
So, as l do like my MKARS 80 is the thing to do to change C45 or is there something more to it.
Have a happy Easter and 73 de SM4LRA / Christer

From: Pascal <pascal@...>
To: mkars80@...
Sent: Monday, March 26, 2012 9:43 PM
Subject: [mkars80] Re: Drift

Hi

The C45 : 100pF is also critical - my part was not COG , and it was a desaster, with at least a jump in each qso ! - With a COG type, the MKARS is now very stable and quiet...

Pascal F6EHP

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> OK, changing them to 1nF NP0 / COG types will make a significant
> difference. There is also an update to the micro code (V2.4) - you can
> either update this yourself if you have acces to a PIC programmer (code
> on my website) or I can send you a new PIC and capacitors for GBP 5.00.
>
> Regards,
> Steve G6ALU
>
> On 18/03/2012 15:25, mike wrote:
> > Steve,
> >
> > I just looked mine are Green mylar.
> >
> > Thanks
> >
> > Mike WA3O
> >
> > --- In mkars80@..., "mike"<mikeymustang2000@> wrote:
> >> Hey group.
> >>
> >> My MKARS80 was built several yeas ago and it drifts and jumps.
> >>

> >> So I read there is a fix...and I found the write up. Can I buy the correct components from someone on here in the US?
> >>
> >> Thanks
> >>
> >> Mike WA3O
> >>
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.1913 / Virus Database: 2114/4877 - Release Date: 03/17/12
> >
> >
>

[Non-text portions of this message have been removed]

2553. Mkars 80 it's ok

Yahoo group: mkars80
Date: 2012-04-05 10:58:41 UTC
From: F5mpw
Topic: 2553 Message: 2553

Hello.
The Mkars 80 is OK. This morning, first qso with the kit. No problem: 4.5w (on tune) - I am very happy. thank you very much for this many hours with a good result.
All the best! what can I do now ???? ;-)
73 philippe F5MPW
ps) last photos soon on the site...

[Non-text portions of this message have been removed]

2554. Re: Mkars 80 it's ok

Yahoo group: mkars80
Date: 2012-04-08 09:41:56 UTC
From: Pascal
Topic: 2553 Message: 2554

Hello, can we try a sked ? Mkars to Mkars, from Saint-Pol to yr qth, 100 mi - I listen the 80m every evening the week, from 10 pm...
A nice Eastern to everybody

--- In mkars80@..., "F5mpw" <f5mpw@...> wrote:
>
> Hello.
> The Mkars 80 is OK. This morning, first qso with the kit. No problem: 4.5w (on tune) - I am very happy. thank you very much for this many hours with a good result.
> All the best! what can I do now ???? ;-)
> 73 philippe F5MPW
> ps) last photos soon on the site...
>
> [Non-text portions of this message have been removed]
>

2555. Antenna suggestion - thinking of building mkars

Yahoo group: mkars80
Date: 2012-04-08 10:07:54 UTC
From: DaveP
Topic: 2555 Message: 2555

Dear All,
I passed UK foundation exam last year and am currently studying to take intermediate exam in a month or two time.

While I have a yaesu ft-8900 radio and a multiband antenna for that, I don't have an HF antenna that would do 80m.

I am seriously thinking about ordering/building the MKARS and I am not sure what would be the most obvious antenna to buy/make to go with it. I do have fairly long garden, but not very wide and hedges either side.

I was thinking of a tripod vertical as I could then have that in garden or take it elsewhere..

http://www.hamradio.co.uk/aerials-antenna-manufacturers-mydel-antennas/mydel/chapstick-complete-pd-2903.php
or perhaps
http://www.sandpiperaerials.co.uk/index.php?main_page=product_info&cPath=63&products_id=281

What do other people use? To be honest, I guess the above feel in someways like overkill...
What's my simplest choice?
Thanks for advice.
Dave Price. MW6DVP

2556. Re: [mkars80] Antenna suggestion - thinking of building mkars

Yahoo group: mkars80
Date: 2012-04-08 10:11:43 UTC
From: Steve Drury
Topic: 2555 Message: 2556

Hi,

Simplest choice is a centre fed dipole if you have a long enough garden for it, even simpler is an end fed quarter wave but this will require a good ground and then best to run the MKARS80 from a battery supply.

Steve G6ALU

On 08/04/2012 11:07, DaveP wrote:
> Dear All,
> I passed UK foundation exam last year and am currently studying to take intermediate exam in a month or two time.
>
> While I have a yaesu ft-8900 radio and a multiband antenna for that, I don't have an HF antenna that would do 80m.
>
> I am seriously thinking about ordering/building the MKARS and I am not sure what would be the most obvious antenna to buy/make to go with it. I do have fairly long garden, but not very wide and hedges either side.
>
> I was thinking of a tripod vertical as I could then have that in garden or take it elsewhere..
>
> http://www.hamradio.co.uk/aerials-antenna-manufacturers-mydel-antennas/mydel/chapstick-complete-pd-2903.php
> or perhaps
> http://www.sandpiperaerials.co.uk/index.php?main_page=product_info&cPath=63&products_id=281
>
> What do other people use? To be honest, I guess the above feel in someways like overkill... What's my simplest choice?
> Thanks for advice.
> Dave Price. MW6DVP
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
> -----
> No virus found in this message.

> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2411/4921 - Release Date: 04/07/12
>
>

2557. Re: Antenna suggestion - thinking of building mkars

Yahoo group: mkars80
Date: 2012-04-08 16:26:56 UTC
From: Philip
Topic: 2555 Message: 2557

Dave
I have an 80 meter dipole but my MKARS 80 gets a lot of use sat out
on a sunny day with it feeding a simple to make loop.
Works very well, low noise and it's somehow fun to see the little rig and loop working together...
Tunes up beautifuly..
Link here...
http://www.hard-core-dx.com/nordicdx/antenna/loop/loop80m.html

Good luck with the kit when you get it, great fun to build and it
works a treat..

Regards
Philip G4JVF

--- In mkars80@yahoogroups.co.uk, "DaveP" <daveprice@...> wrote:
>
> Dear All,
> I passed UK foundation exam last year and am currently studying to take intermediate exam in a month or two time.
>
> While I have a yaesu ft-8900 radio and a multiband antenna for that, I don't have an HF antenna that would do 80m.
>
> I am seriously thinking about ordering/building the MKARS and I am not sure what would be the most obvious antenna to buy/make to go with it. I do have fairly long garden, but not very wide and hedges either side.
>
> I was thinking of a tripod vertical as I could then have that in garden or take it elsewhere..
>
> http://www.hamradio.co.uk/aerials-antenna-manufacturers-mydel-antennas/mydel/chapstick-complete-pd-2903.php
> or perhaps
> http://www.sandpiperaerials.co.uk/index.php?main_page=product_info&cPath=63&products_id=281
>
> What do other people use? To be honest, I guess the above feel in someways like overkill... What's my simplest choice?
> Thanks for advice.
> Dave Price. MW6DVP
>

2558. Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-04-11 06:15:58 UTC
From: Andreas
Topic: 2447 Message: 2558

Steve,

did you make some rf measurements in the meantime?
Thanks,

73 Andy DC3AFA

--- In mkars80@..., "hamlab3" <steve@...> wrote:
>
> OK Andy,
>
> I will take measurements with an RF probe, if you have done a DC voltage check and everything is in order then the problem can only be found by taking RF measurements.
>
> RF probes are simple to make, I will do some experimentation today in preperation.
>
> Steve G6ALU
>
> --- In mkars80@..., "Andreas" <andreas.fuehrmann@> wrote:
> >
> > Sorry, I only have a multimeter with freq counter (up to 10 MHz) :-(
> >
> > Andy
>

2559. Re: [mkars80] Re: Mkars 80 it's ok

Yahoo group: mkars80
Date: 2012-04-11 08:02:16 UTC
From: F5mpw
Topic: 2553 Message: 2559

Hello!

I was out of house...
tnx for the qso, but very sorry, at this time, i am sleeping...
all the best!
philippe F5MPW

----- Original Message -----
From: Pascal
To: mkars80@...
Sent: Sunday, April 08, 2012 11:41 AM
Subject: [mkars80] Re: Mkars 80 it's ok

Hello, can we try a sked ? Mkars to Mkars, from Saint-Pol to yr qth, 100 mi - I listen the 80m every evening the week, from 10 pm...
A nice Eastern to everybody

--- In mkars80@..., "F5mpw" <f5mpw@...> wrote:
>
> Hello.
> The Mkars 80 is OK. This morning, first qso with the kit. No problem: 4.5w (on tune) - I am very happy. thank you very much for this many hours with a good result.
> All the best! what can I do now ???? ;-)
> 73 philippe F5MPW
> ps) last photos soon on the site...
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

2560. Re: [mkars80] Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-04-11 21:44:07 UTC
From: Steve Drury
Topic: 2447 Message: 2560

Sorry Andy, I've not found time to - it will be a few days until I can do.

Steve

On 11/04/2012 07:15, Andreas wrote:
> Steve,
>
> did you make some rf measurements in the meantime?
> Thanks,
>
> 73 Andy DC3AFA
>
> --- In mkars80@..., "hamlab3"<steve@...> wrote:
>> OK Andy,
>>
>> I will take measurements with an RF probe, if you have done a DC voltage check and everything is in order then the problem can only be found by taking RF measurements.
>>
>> RF probes are simple to make, I will do some experimentation today in preperation.
>>
>> Steve G6ALU
>>
>> --- In mkars80@..., "Andreas"<andreas.fuehrmann@> wrote:
>>> Sorry, I only have a multimeter with freq counter (up to 10 MHz) :-(
>>>
>>> Andy
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.1913 / Virus Database: 2411/4926 - Release Date: 04/10/12
>
>

2561. Re: Finally made new microphone successfully

Yahoo group: mkars80
Date: 2012-04-12 05:42:17 UTC
From: Andreas
Topic: 2447 Message: 2561

No problem. I won´t run away.
My MKARS80 neither ;-)

73 Andy DC3AFA

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Sorry Andy, I've not found time to - it will be a few days until I can do.
>
> Steve

2562. Re: Mkars 80 it's ok

Yahoo group: mkars80
Date: 2012-04-12 20:48:32 UTC
From: Pascal
Topic: 2553 Message: 2562

dommage !

--- In mkars80@..., "F5mpw" <f5mpw@...> wrote:
>
> Hello!
>
> I was out of house...
> tnx for the qso, but very sorry, at this time, i am sleeping...
> all the best!
> philippe F5MPW
>
>
>
> ----- Original Message -----
> From: Pascal
> To: mkars80@yahoogroups.co.uk
> Sent: Sunday, April 08, 2012 11:41 AM
> Subject: [mkars80] Re: Mkars 80 it's ok
>
>
>
> Hello, can we try a sked ? Mkars to Mkars, from Saint-Pol to yr qth, 100 mi - I listen the 80m every evening the week, from 10 pm...
> A nice Eastern to everybody
>
> --- In mkars80@yahoogroups.co.uk, "F5mpw" <f5mpw@> wrote:
> >
> > Hello.
> > The Mkars 80 is OK. This morning, first qso with the kit. No problem: 4.5w (on tune) - I am very happy. thank you very much for this many hours with a good result.
> > All the best! what can I do now ???? ;-)
> > 73 philippe F5MPW
> > ps) last photos soon on the site...
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

2563. Special event station at Bletchley Park using an MKARS80

Yahoo group: mkars80
Date: 2012-04-21 07:23:43 UTC
From: Steve Drury
Topic: 2563 Message: 2563

Hi all,

Just to let you know to look out for a special event station at Bletchley Park this Sunday, the operator will be Rick Brand G0SJR and the call sign will be GB3RSS. He has a good antennae (dipole) so inter G and some DX should be possible.

The station is in commemoration of the Radio Security Service who are holding their reunion in the Mansion.

Steve G6ALU

2564. Re: [mkars80] Special event station at Bletchley Park using an MKARS80

Yahoo group: mkars80
Date: 2012-04-21 08:14:01 UTC
From: steve@radio-kits.co.uk
Topic: 2564 Message: 2564

A PS to the last mail, I have a stand at the Kempton Park rally tomorrow... Look forward to meeting anyone, we will also have for sale the new ."Hunter" SDR receiver.

Steve G6ALU

----- Reply message -----
From: "Steve Drury" <steve@...>
To: <mkars80@...>
Subject: [mkars80] Special event station at Bletchley Park using an MKARS80
Date: Sat, Apr 21, 2012 08:23

Hi all,

Just to let you know to look out for a special event station at
Bletchley Park this Sunday, the operator will be Rick Brand G0SJR and
the call sign will be GB3RSS. He has a good antennae (dipole) so inter G
and some DX should be possible.

The station is in commemoration of the Radio Security Service who are
holding their reunion in the Mansion.

Steve G6ALU

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2565. Re: Special event station at Bletchley Park using an MKARS80

Yahoo group: mkars80
Date: 2012-04-21 12:10:53 UTC
From: Stephen Leeman
Topic: 2563 Message: 2565

Good luck Steve, with your rally!

And I'm sure you will enjoy the special event on Sunday.

Busy weekend!

Have fun

Stephen

[Non-text portions of this message have been removed]

2566. RE: [mkars80] Digest Number 655

Yahoo group: mkars80
Date: 2012-04-26 19:45:30 UTC
From: Peter LB0K
Topic: 2566 Message: 2566

Hello Steve.
Was nice to meet you on Sunday, and talk briefly about microphones, and other matters.
Will be starting on the Hunter this weekend, once I've finished the daily stints of gardening. I started the training for this today, I have a mountain (30 odd) of
Signal processing pcb's at work to have a couple of components corrected, all SMD stuff and someone else couldn't read the markings either.

Peter, LB0K - G8CKB
Forland, 5379, Sotra

-----Original Message-----
From: mkars80@... [mailto:mkars80@...]
Sent: 21. april 2012 12:28
To: mkars80@...
Subject: [mkars80] Digest Number 655

There are 3 messages in this issue.

Topics in this digest:

1. Special event station at Bletchley Park using an MKARS80
From: Steve Drury

2.1. Re: [mkars80] Special event station at Bletchley Park using an MKARS

From: steve@...
2.2. Re: [mkars80] Special event station at Bletchley Park using an MKARS

From: steve@...

Messages
---
1. Special event station at Bletchley Park using an MKARS80
Posted by: "Steve Drury" steve@... hamlab3
Date: Sat Apr 21, 2012 8:23 am

Hi all,

Just to let you know to look out for a special event station at Bletchley Park this Sunday, the operator will be Rick Brand G0SJR and the call sign will be GB3RSS. He has a good antennae (dipole) so inter G and some DX should be possible.

The station is in commemoration of the Radio Security Service who are holding their reunion in the Mansion.

Steve G6ALU

Messages in this topic (1)

2.1. Re: [mkars80] Special event station at Bletchley Park using an MKARS
Posted by: "steve@..." steve@... hamlab3
Date: Sat Apr 21, 2012 9:14 am

A PS to the last mail, I have a stand at the Kempton Park rally tomorrow...
Look forward to meeting anyone, we will also have for sale the new ."Hunter"
SDR receiver.

Steve G6ALU

----- Reply message -----
From: "Steve Drury" <steve@...>
To: <mkars80@...>
Subject: [mkars80] Special event station at Bletchley Park using an MKARS80
Date: Sat, Apr 21, 2012 08:23

Hi all,

Just to let you know to look out for a special event station at
Bletchley Park this Sunday, the operator will be Rick Brand G0SJR and
the call sign will be GB3RSS. He has a good antennae (dipole) so inter G
and some DX should be possible.

The station is in commemoration of the Radio Security Service who are
holding their reunion in the Mansion.

Steve G6ALU

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Messages in this topic (2)

2.2. Re: [mkars80] Special event station at Bletchley Park using an MKARS
Posted by: "steve@..." steve@... hamlab3
Date: Sat Apr 21, 2012 9:14 am

A PS to the last mail, I have a stand at the Kempton Park rally tomorrow...
Look forward to meeting anyone, we will also have for sale the new ."Hunter"
SDR receiver.

Steve G6ALU

----- Reply message -----
From: "Steve Drury" <steve@...>
To: <mkars80@...>
Subject: [mkars80] Special event station at Bletchley Park using an MKARS80

Date: Sat, Apr 21, 2012 08:23

Hi all,

Just to let you know to look out for a special event station at Bletchley Park this Sunday, the operator will be Rick Brand G0SJR and the call sign will be GB3RSS. He has a good antennae (dipole) so inter G and some DX should be possible.

The station is in commemoration of the Radio Security Service who are holding their reunion in the Mansion.

Steve G6ALU

Yahoo! Groups Links

[Non-text portions of this message have been removed]

Messages in this topic (2)

Yahoo! Groups Links

2567. Microphone

Yahoo group: mkars80
Date: 2012-04-26 21:29:54 UTC
From: ALLENCrdr@aol.com
Topic: 2567 Message: 2567

Hi steve,

The microphone that i purchased at the rally is working a treat, just wired it up and its working very well.
I also changed the switch to a push to make, after making up a small oval plate and fitting it into the switch recess.

Thanks again

Allen M1CXK

[Non-text portions of this message have been removed]

2568. Re: [mkars80] Microphone

Yahoo group: mkars80
Date: 2012-04-26 21:51:45 UTC
From: steve@radio-kits.co.uk
Topic: 2568 Message: 2568

Thanks for letting me know...
Steve

----- Reply message -----
From: ALLENCrdr@...
To: <mkars80@...>
Subject: [mkars80] Microphone
Date: Thu, Apr 26, 2012 22:29

Hi steve,

The microphone that i purchased at the rally is working a treat, just
wired it up and its working very well.
I also changed the switch to a push to make, after making up a small oval
plate and fitting it into the switch recess.

Thanks again

Allen M1CXK

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2569. Tips on removal of damaged polyvaricon? (without damaging board)

Yahoo group: mkars80
Date: 2012-04-27 17:48:29 UTC
From: johncronhelm
Topic: 2569 Message: 2569

I need to replace my polyvaricon and find it difficult to desolder using both spring loaded desoldering tool and copper braid (retention screws removed) Bleed thru'solder on the printed side of board doesn't help! Any ideas?
John(VO1JCC).

2570. Re: [mkars80] Tips on removal of damaged polyvaricon? (without damaging board)

Yahoo group: mkars80
Date: 2012-04-28 09:47:51 UTC
From: K.Greenough
Topic: 2569 Message: 2570

Hello John,
If the variable cap' is damaged then you may find it
easier to snip the leads a few mm above the board to
remove the cap' and then remove the lead with pliers
whilst heating the joint. To open the hole to allow the
fitting of a new cap' use a large needle and push through
the hole again whilst heating the solder.
73 Ken g8beq

[Non-text portions of this message have been removed]

2571. Re: Tips on removal of damaged polyvaricon? (without damaging board)

Yahoo group: mkars80
Date: 2012-04-28 17:16:47 UTC
From: johncronhelm
Topic: 2569 Message: 2571

Thanks Ken! I would have done that,but the polyvaricon is Tight to the board,since I posted,it has been suggested by Steve in an email that I use a hotter larger solder tip

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello John,
> If the variable cap' is damaged then you may find it
> easier to snip the leads a few mm above the board to
> remove the cap' and then remove the lead with pliers
> whilst heating the joint. To open the hole to allow the
> fitting of a new cap' use a large needle and push through
> the hole again whilst heating the solder.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

2572. Re: Tips on removal of damaged polyvaricon? (without damaging board)

Yahoo group: mkars80
Date: 2012-04-28 18:46:16 UTC
From: johncronhelm
Topic: 2569 Message: 2572

Thanks again Ken,
In the meantime I bought a very fine cutting tool and managed to remove the polyvaricon as you suggested. The rest should be reasonably easy.
John. VO1JCC.

--- In mkars80@..., "K.Greenough" <g0wbm@...> wrote:
>
> Hello John,
> If the variable cap' is damaged then you may find it
> easier to snip the leads a few mm above the board to
> remove the cap' and then remove the lead with pliers
> whilst heating the joint. To open the hole to allow the
> fitting of a new cap' use a large needle and push through
> the hole again whilst heating the solder.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

2573. No power output...

Yahoo group: mkars80
Date: 2012-04-29 10:18:05 UTC
From: Andy
Topic: 2447 Message: 2573

My MKARS80 is still waiting for getting finished.
Any hints?

>
> Checked all of this, but still the same problem.
> Receive with no audio 110 mA
> TX with no modulation 285 mA
> but only 350 mA max with whistling
> Strange...
>
> 73 And DC3AFA

2574. Re: [mkars80] No power output...

Yahoo group: mkars80
Date: 2012-04-29 21:31:26 UTC
From: Steve Drury
Topic: 2447 Message: 2574

Sorry Andy,

I've been assigning too much time solving other issues - I will
concentrate on yours now.

A diode probe will require either a Germanium or Schottky diode - I
wonder if you have any of either? If not let me rough up a circuit then
I can send you the components.

Steve

On 29/04/2012 11:18, Andy wrote:
> My MKARS80 is still waiting for getting finished.
> Any hints?
>
>> Checked all of this, but still the same problem.
>> Receive with no audio 110 mA
>> TX with no modulation 285 mA
>> but only 350 mA max with whistling
>> Strange...
>>
>> 73 And DC3AFA
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

2575. Re: No power output...

Yahoo group: mkars80
Date: 2012-04-30 10:02:43 UTC
From: Andy
Topic: 2447 Message: 2575

Hi Steve,

I´ve got rf probes for my multimeter, so if you tell me what to measure I will try.

73 Andy DC3AFA

2576. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2012-04-30 19:42:33 UTC
From: mkars80@yahoogroups.co.uk
Topic: 274 Message: 2576

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /MKARS80 Fault finding/MKARS80 TX fault finding.pdf
Uploaded by : hamlab3 <steve@...>
Description : Diode probe measurements

You can access this file at the URL:
http://uk.groups.yahoo.com/group/mkars80/files/MKARS80%20Fault%20finding/MKARS80%20TX%20fault%20finding.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/uk/groups/files

Regards,

hamlab3 <steve@...>

2577. Re: [mkars80] Re: No power output...

Yahoo group: mkars80
Date: 2012-04-30 19:46:44 UTC
From: Steve Drury
Topic: 2447 Message: 2577

Andy,

As I don't know how or what your diode probes will read, I have loaded a
file to the group which include my probe design and tabulated readings
from the important test points - see announcement - try it and tell me
the result.
You may have to scale your readings depending on the RF probe design.
The first two readings could be used as a reference as they are from the
oscillators.

Steve G6ALU

On 30/04/2012 11:02, Andy wrote:
> Hi Steve,
>
> I?ve got rf probes for my multimeter, so if you tell me what to measure I will try.
>
> 73 Andy DC3AFA
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

2578. Re: No power output...

Yahoo group: mkars80
Date: 2012-05-01 08:02:19 UTC
From: Andy
Topic: 2447 Message: 2578

Thanks. Will try it.

73 Andy DC3AFA

2579. looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-13 17:07:27 UTC
From: F5mpw
Topic: 2579 Message: 2579

Hello!

I saw on this site a very nice inside quad antenna for 80m. At this time I can't find this message in my computer. Someone has this link? Thank to send me it ;-)
Always nice reports and comments for the Mkars80. With it, 58-59 betwen Rennes to Brest...
Perhaps my antenna is nice, but MKars works very well!
Good evening!
73 philippe F5MPW

[Non-text portions of this message have been removed]

2580. Re: [mkars80] looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-13 17:31:02 UTC
From: John
Topic: 2579 Message: 2580

Hello Philippe
I'm not sure if what you are looking for is on this page but there are a
lot of interesting ideas!

They are just basic ideas but if you see something I'm sure you can find
out more. I built number 48 for my main station, the details were
originally in a German magazine then QST.

Here is the link
http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for_ham_radio.htm

Scroll down the page to see the pictures or pick something you like from
the list.

Good luck!
73,
John.

On 13/05/2012 18:07, F5mpw wrote:
>
> Hello!
>
> I saw on this site a very nice inside quad antenna for 80m. At this
> time I can't find this message in my computer. Someone has this link?
> Thank to send me it ;-)
> Always nice reports and comments for the Mkars80. With it, 58-59
> betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
> very well!
> Good evening!
> 73 philippe F5MPW
>
>
> [Non-text portions of this message have been removed]
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date: 05/12/12
>

[Non-text portions of this message have been removed]

2581. Re: [mkars80] looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-14 16:02:45 UTC
From: F5mpw
Topic: 2579 Message: 2581

Thank you John for this link, a lot of antenna, very interessing. The antenna that I am looking for was on this group someone gave this idea. It was for inside with many turns on a square for 80m... I think somebody conserve the link... But with this nice weather, I will be in the garden to lawn the grass ;-)
73 philippe F5MPW

----- Original Message -----
From: John
To: mkars80@...
Sent: Sunday, May 13, 2012 7:31 PM
Subject: Re: [mkars80] looking for antenna nice for MKARS80

Hello Philippe
I'm not sure if what you are looking for is on this page but there are a
lot of interesting ideas!

They are just basic ideas but if you see something I'm sure you can find
out more. I built number 48 for my main station, the details were
originally in a German magazine then QST.

Here is the link
http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for_ham_radio.htm

Scroll down the page to see the pictures or pick something you like from
the list.

Good luck!
73,
John.

On 13/05/2012 18:07, F5mpw wrote:
>
> Hello!
>
> I saw on this site a very nice inside quad antenna for 80m. At this
> time I can't find this message in my computer. Someone has this link?
> Thank to send me it ;-)
> Always nice reports and comments for the Mkars80. With it, 58-59
> betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
> very well!
> Good evening!
> 73 philippe F5MPW
>
>
> [Non-text portions of this message have been removed]
>

>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date: 05/12/12
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2582. Re: [mkars80] looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-14 16:15:11 UTC
From: John
Topic: 2579 Message: 2582

Hi Philippe
I looked through the old messages in the group and came up with the
following by Philip G4JVF :-

I have an 80 meter dipole but my MKARS 80 gets a lot of use sat out
on a sunny day with it feeding a simple to make loop.
Works very well, low noise and it's somehow fun to see the little rig
and loop working together...
Tunes up beautifully..
Link here...
http://www.hard-core-dx.com/nordicdx/antenna/loop/loop80m.html

73,
John.

On 14/05/2012 17:02, F5mpw wrote:
>
> Thank you John for this link, a lot of antenna, very interessing. The
> antenna that I am looking for was on this group someone gave this
> idea. It was for inside with many turns on a square for 80m... I think
> somebody conserve the link... But with this nice weather, I will be in
> the garden to lawn the grass ;-)
> 73 philippe F5MPW
>
> ----- Original Message -----
> From: John
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Sunday, May 13, 2012 7:31 PM
> Subject: Re: [mkars80] looking for antenna nice for MKARS80
>
> Hello Philippe
> I'm not sure if what you are looking for is on this page but there are a
> lot of interesting ideas!
>
> They are just basic ideas but if you see something I'm sure you can find
> out more. I built number 48 for my main station, the details were
> originally in a German magazine then QST.
>
> Here is the link
> http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for_
ham_radio.htm
>
> Scroll down the page to see the pictures or pick something you like from
> the list.
>
> Good luck!

> 73,
> John.
>
> On 13/05/2012 18:07, F5mpw wrote:
> >
> > Hello!
> >
> > I saw on this site a very nice inside quad antenna for 80m. At this
> > time I can't find this message in my computer. Someone has this link?
> > Thank to send me it ;-)
> > Always nice reports and comments for the Mkars80. With it, 58-59
> > betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
> > very well!
> > Good evening!
> > 73 philippe F5MPW
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > No virus found in this message.
> > Checked by AVG - www.avg.com <http://www.avg.com>
> > Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date:
> 05/12/12
> >
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2012.0.2171 / Virus Database: 2425/4997 - Release Date: 05/13/12
>

[Non-text portions of this message have been removed]

2583. Re: [mkars80] looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-14 17:48:16 UTC
From: Steve Bell
Topic: 2579 Message: 2583

Philippe, this is what you must be looking for.

http://www.hard-core-dx.com/nordicdx/antenna/loop/loop80m.html

I bookmarked it and saved it as a pdf as I plan to try it. If effective I intend to hinge the middle so it will fit easily into the back of the car.

Steve M0SVB

On 14 May 2012, at 17:02, F5mpw wrote:

> Thank you John for this link, a lot of antenna, very interessing. The antenna that I am looking for was on this group someone gave this idea. It was for inside with many turns on a square for 80m... I think somebody conserve the link... But with this nice weather, I will be in the garden to lawn the grass ;-)
> 73 philippe F5MPW
>
> ----- Original Message -----
> From: John
> To: mkars80@...
> Sent: Sunday, May 13, 2012 7:31 PM
> Subject: Re: [mkars80] looking for antenna nice for MKARS80
>
> Hello Philippe
> I'm not sure if what you are looking for is on this page but there are a
> lot of interesting ideas!
>
> They are just basic ideas but if you see something I'm sure you can find
> out more. I built number 48 for my main station, the details were
> originally in a German magazine then QST.
>
> Here is the link
> http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for_ham_radio.htm
>
> Scroll down the page to see the pictures or pick something you like from
> the list.
>
> Good luck!
> 73,
> John.
>
> On 13/05/2012 18:07, F5mpw wrote:
> >
> > Hello!
> >

> > I saw on this site a very nice inside quad antenna for 80m. At this
> > time I can't find this message in my computer. Someone has this link?
> > Thank to send me it ;-)
> > Always nice reports and comments for the Mkars80. With it, 58-59
> > betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
> > very well!
> > Good evening!
> > 73 philippe F5MPW
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > No virus found in this message.
> > Checked by AVG - www.avg.com <http://www.avg.com>
> > Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date: 05/12/12
> >
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

2584. Re: [mkars80] looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-15 06:16:05 UTC
From: F5mpw
Topic: 2579 Message: 2584

Hello!
What a pleasure to see the good link. Yes Styve it's this antenna I should like to try... it's not very difficult to build about 20m of cable and capacitor...
thank you everybody for your help...
next time!
73 philippe F5MPW

----- Original Message -----
From: "Steve Bell" <listsmail@...>
To: <mkars80@...>
Sent: Monday, May 14, 2012 7:48 PM
Subject: Re: [mkars80] looking for antenna nice for MKARS80

> Philippe, this is what you must be looking for.
>
> http://www.hard-core-dx.com/nordicdx/antenna/loop/loop80m.html
>
> I bookmarked it and saved it as a pdf as I plan to try it. If effective I
> intend to hinge the middle so it will fit easily into the back of the car.
>
> Steve M0SVB
>
> On 14 May 2012, at 17:02, F5mpw wrote:
>
>> Thank you John for this link, a lot of antenna, very interessing. The
>> antenna that I am looking for was on this group someone gave this idea.
>> It was for inside with many turns on a square for 80m... I think somebody
>> conserve the link... But with this nice weather, I will be in the garden
>> to lawn the grass ;-)
>> 73 philippe F5MPW
>>
>> ----- Original Message -----
>> From: John
>> To: mkars80@...
>> Sent: Sunday, May 13, 2012 7:31 PM
>> Subject: Re: [mkars80] looking for antenna nice for MKARS80
>>
>> Hello Philippe
>> I'm not sure if what you are looking for is on this page but there are a
>> lot of interesting ideas!
>>
>> They are just basic ideas but if you see something I'm sure you can find
>> out more. I built number 48 for my main station, the details were
>> originally in a German magazine then QST.

>>
>> Here is the link
>> http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for
_ham_radio.htm
>>
>> Scroll down the page to see the pictures or pick something you like from
>> the list.
>>
>> Good luck!
>> 73,
>> John.
>>
>> On 13/05/2012 18:07, F5mpw wrote:
>> >
>> > Hello!
>> >
>> > I saw on this site a very nice inside quad antenna for 80m. At this
>> > time I can't find this message in my computer. Someone has this link?
>> > Thank to send me it ;-)
>> > Always nice reports and comments for the Mkars80. With it, 58-59
>> > betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
>> > very well!
>> > Good evening!
>> > 73 philippe F5MPW
>> >
>> >
>> > [Non-text portions of this message have been removed]
>> >
>> >
>> >
>> > No virus found in this message.
>> > Checked by AVG - www.avg.com <http://www.avg.com>
>> > Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date:
>> > 05/12/12
>> >
>>
>> [Non-text portions of this message have been removed]
>>
>> [Non-text portions of this message have been removed]
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>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
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>
>

2585. Re: looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-16 03:55:01 UTC
From: Jonathan point
Topic: 2579 Message: 2585

Philippe,

Is this what you were looking for?

http://www.sm0vpo.com/antennas/frameant.htm

Regards,

Jon Point
VK2JDP

--- In mkars80@....uk, "F5mpw" <f5mpw@...> wrote:
>
> Thank you John for this link, a lot of antenna, very interessing. The antenna that I am looking for was on this group someone gave this idea. It was for inside with many turns on a square for 80m... I think somebody conserve the link... But with this nice weather, I will be in the garden to lawn the grass ;-)
> 73 philippe F5MPW
>
> ----- Original Message -----
> From: John
> To: mkars80@....uk
> Sent: Sunday, May 13, 2012 7:31 PM
> Subject: Re: [mkars80] looking for antenna nice for MKARS80
>
>
>
> Hello Philippe
> I'm not sure if what you are looking for is on this page but there are a
> lot of interesting ideas!
>
> They are just basic ideas but if you see something I'm sure you can find
> out more. I built number 48 for my main station, the details were
> originally in a German magazine then QST.
>
> Here is the link
> http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for_ham_radio.htm
>
> Scroll down the page to see the pictures or pick something you like from
> the list.
>
> Good luck!
> 73,
> John.
>

> On 13/05/2012 18:07, F5mpw wrote:
> >
> > Hello!
> >
> > I saw on this site a very nice inside quad antenna for 80m. At this
> > time I can't find this message in my computer. Someone has this link?
> > Thank to send me it ;-)
> > Always nice reports and comments for the Mkars80. With it, 58-59
> > betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
> > very well!
> > Good evening!
> > 73 philippe F5MPW
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > No virus found in this message.
> > Checked by AVG - www.avg.com <http://www.avg.com>
> > Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date: 05/12/12
> >
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

2586. Re: [mkars80] Re: looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-16 05:44:21 UTC
From: F5mpw
Topic: 2579 Message: 2586

Yes, it was this antenna. I think to build it. But at home I have a center fed about 2x20.50m and 18m bifilar 450 ohms and it works very well... But why not to try? ;-)
thank you jon.

best 73 philippe

----- Original Message -----
From: Jonathan point
To: mkars80@...
Sent: Wednesday, May 16, 2012 5:55 AM
Subject: [mkars80] Re: looking for antenna nice for MKARS80

Philippe,

Is this what you were looking for?

http://www.sm0vpo.com/antennas/frameant.htm

Regards,

Jon Point
VK2JDP

--- In mkars80@..., "F5mpw" <f5mpw@...> wrote:
>
> Thank you John for this link, a lot of antenna, very interessing. The antenna that I am looking for was on this group someone gave this idea. It was for inside with many turns on a square for 80m... I think somebody conserve the link... But with this nice weather, I will be in the garden to lawn the grass ;-)
> 73 philippe F5MPW
>
> ----- Original Message -----
> From: John
> To: mkars80@...
> Sent: Sunday, May 13, 2012 7:31 PM
> Subject: Re: [mkars80] looking for antenna nice for MKARS80
>
>
>
> Hello Philippe
> I'm not sure if what you are looking for is on this page but there are a
> lot of interesting ideas!
>
> They are just basic ideas but if you see something I'm sure you can find
> out more. I built number 48 for my main station, the details were
> originally in a German magazine then QST.
>

> Here is the link
> http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for_ham_radio.htm
>
> Scroll down the page to see the pictures or pick something you like from
> the list.
>
> Good luck!
> 73,
> John.
>
> On 13/05/2012 18:07, F5mpw wrote:
> >
> > Hello!
> >
> > I saw on this site a very nice inside quad antenna for 80m. At this
> > time I can't find this message in my computer. Someone has this link?
> > Thank to send me it ;-)
> > Always nice reports and comments for the Mkars80. With it, 58-59
> > betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
> > very well!
> > Good evening!
> > 73 philippe F5MPW
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > No virus found in this message.
> > Checked by AVG - www.avg.com <http://www.avg.com>
> > Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date: 05/12/12
> >
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

2587. Re: looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-16 06:55:33 UTC
From: Jonathan point
Topic: 2579 Message: 2587

Philippe,

Compared to your dipole, it won't 'get out' as well IMO (unless your dipole is too low) but it could be very useful for local contacts if you have a lot of local interference as you can 'null-out' the interference.

In my experience they are no better than a short, random wire for transmitting, but they do make a good RX antenna =]

Regards,

Jon Point
VK2JDP

--- In mkars80@..., "F5mpw" <f5mpw@...> wrote:
>
> Yes, it was this antenna. I think to build it. But at home I have a center fed about 2x20.50m and 18m bifilar 450 ohms and it works very well... But why not to try? ;-)
> thank you jon.
>
> best 73 philippe
>
>
> ----- Original Message -----
> From: Jonathan point
> To: mkars80@...
> Sent: Wednesday, May 16, 2012 5:55 AM
> Subject: [mkars80] Re: looking for antenna nice for MKARS80
>
>
>
>
> Philippe,
>
> Is this what you were looking for?
>
> http://www.sm0vpo.com/antennas/frameant.htm
>
> Regards,
>
> Jon Point
> VK2JDP
>
> --- In mkars80@yahoogroups.co.uk, "F5mpw" <f5mpw@> wrote:
> >
> > Thank you John for this link, a lot of antenna, very interessing. The antenna that I am looking for was on this group someone gave this idea. It was for inside with many turns on

a square for 80m... I think somebody conserve the link... But with this nice weather, I will be in the garden to lawn the grass ;-)
> > 73 philippe F5MPW
> >
> > ----- Original Message -----
> > From: John
> > To: mkars80@...
> > Sent: Sunday, May 13, 2012 7:31 PM
> > Subject: Re: [mkars80] looking for antenna nice for MKARS80
> >
> >
> >
> > Hello Philippe
> > I'm not sure if what you are looking for is on this page but there are a
> > lot of interesting ideas!
> >
> > They are just basic ideas but if you see something I'm sure you can find
> > out more. I built number 48 for my main station, the details were
> > originally in a German magazine then QST.
> >
> > Here is the link
> > http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for_ham_radio.htm
> >
> > Scroll down the page to see the pictures or pick something you like from
> > the list.
> >
> > Good luck!
> > 73,
> > John.
> >
> > On 13/05/2012 18:07, F5mpw wrote:
> > >
> > > Hello!
> > >
> > > I saw on this site a very nice inside quad antenna for 80m. At this
> > > time I can't find this message in my computer. Someone has this link?
> > > Thank to send me it ;-)
> > > Always nice reports and comments for the Mkars80. With it, 58-59
> > > betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
> > > very well!
> > > Good evening!
> > > 73 philippe F5MPW
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com <http://www.avg.com>

> > > Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date: 05/12/12
> > >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

2588. Re: [mkars80] Re: looking for antenna nice for MKARS80

Yahoo group: mkars80
Date: 2012-05-16 18:36:49 UTC
From: F5mpw
Topic: 2579 Message: 2588

Ok Jon.

My center fed is hight above the ground (12m (on left) 17m (center) and 22m to the left in a tree... it works well. Ok for the other antenna small and inside... I want in few months to install a cubical quad on 20m and other bands... Pehaps, one days we will try a contact... in a morning...
All the best 73 philippe F5MPW

----- Original Message -----
From: Jonathan point
To: mkars80@...
Sent: Wednesday, May 16, 2012 8:55 AM
Subject: [mkars80] Re: looking for antenna nice for MKARS80

Philippe,

Compared to your dipole, it won't 'get out' as well IMO (unless your dipole is too low) but it could be very useful for local contacts if you have a lot of local interference as you can 'null-out' the interference.

In my experience they are no better than a short, random wire for transmitting, but they do make a good RX antenna =]

Regards,

Jon Point
VK2JDP

--- In mkars80@..., "F5mpw" <f5mpw@...> wrote:
>
> Yes, it was this antenna. I think to build it. But at home I have a center fed about 2x20.50m and 18m bifilar 450 ohms and it works very well... But why not to try? ;-)
> thank you jon.
>
> best 73 philippe
>
>
> ----- Original Message -----
> From: Jonathan point
> To: mkars80@...
> Sent: Wednesday, May 16, 2012 5:55 AM
> Subject: [mkars80] Re: looking for antenna nice for MKARS80
>
>
>
>
> Philippe,
>

> Is this what you were looking for?
>
> http://www.sm0vpo.com/antennas/frameant.htm
>
> Regards,
>
> Jon Point
> VK2JDP
>
> --- In mkars80@..., "F5mpw" <f5mpw@> wrote:
> >
> > Thank you John for this link, a lot of antenna, very interessing. The antenna that I am looking for was on this group someone gave this idea. It was for inside with many turns on a square for 80m... I think somebody conserve the link... But with this nice weather, I will be in the garden to lawn the grass ;-)
> > 73 philippe F5MPW
> >
> > ----- Original Message -----
> > From: John
> > To: mkars80@...
> > Sent: Sunday, May 13, 2012 7:31 PM
> > Subject: Re: [mkars80] looking for antenna nice for MKARS80
> >
> >
> >
> > Hello Philippe
> > I'm not sure if what you are looking for is on this page but there are a
> > lot of interesting ideas!
> >
> > They are just basic ideas but if you see something I'm sure you can find
> > out more. I built number 48 for my main station, the details were
> > originally in a German magazine then QST.
> >
> > Here is the link
> > http://www.qsl.net/va3iul/Antenna/Wire%20Antennas%20for%20Ham%20Radio/Wire_antennas_for_ham_radio.htm
> >
> > Scroll down the page to see the pictures or pick something you like from
> > the list.
> >
> > Good luck!
> > 73,
> > John.
> >
> > On 13/05/2012 18:07, F5mpw wrote:
> > >
> > > Hello!
> > >
> > > I saw on this site a very nice inside quad antenna for 80m. At this
> > > time I can't find this message in my computer. Someone has this link?

> > > Thank to send me it ;-)
> > > Always nice reports and comments for the Mkars80. With it, 58-59
> > > betwen Rennes to Brest... Perhaps my antenna is nice, but MKars works
> > > very well!
> > > Good evening!
> > > 73 philippe F5MPW
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> > >
> > >
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com <http://www.avg.com>
> > > Version: 2012.0.2171 / Virus Database: 2425/4995 - Release Date: 05/12/12
> > >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

2589. Low Power Output

Yahoo group: mkars80
Date: 2012-06-10 18:40:18 UTC
From: simonmcgraw@btinternet.com
Topic: 2589 Message: 2589

Hi Steve.
I have a low power output on MKARS80.
The DC voltages all seem to read fine.

I have finally got round to using an RF probe (http://n5ese.com/rfprobe1.htm)to check the RF voltages.

Your instruction sheet said to use 12v to check the voltages, is that right? (as opposed to 13.8v) I get 3.28w output on 13.8v and 2.50w output on 12v

Test Point Table 13.8v 12v
Q13 Coll 1.1 0.53 0.51
Q16 Emit 0.66 0.43 0.37
D20 anode 0.85 0.41 0.29
Q21 base 0.2 0.13 0.10
Q21 coll 0.28 0.11 0.08
Q20 base 0.2 0.08 0.06
Q20 coll 1 0.8 0.7
Q9 base 0.3 0.04 0.01
Q9 coll 3 0.05 0.01
Q5 base 1.5 0.3 0.3
Q5 coll 8.5 6.5 5.7
Q1 drain 13.5 8.5 7.8

Is the problem around Q9?

Thanks for your help

Simon

2590. Re: [mkars80] Low Power Output

Yahoo group: mkars80
Date: 2012-06-11 07:17:54 UTC
From: steve@radio-kits.co.uk
Topic: 2589 Message: 2590

On 2012-06-10 18:40, simonmcgraw@... wrote:
> Hi Steve.
> I have a low power output on MKARS80.
> The DC voltages all seem to read fine.
>
> I have finally got round to using an RF probe
> (http://n5ese.com/rfprobe1.htm)to check the RF voltages.
>
> Your instruction sheet said to use 12v to check the voltages, is that
> right? (as opposed to 13.8v) I get 3.28w output on 13.8v and 2.50w
> output on 12v
>
> Test Point Table 13.8v 12v
> Q13 Coll 1.1 0.53 0.51
> Q16 Emit 0.66 0.43 0.37
> D20 anode 0.85 0.41 0.29
> Q21 base 0.2 0.13 0.10
> Q21 coll 0.28 0.11 0.08
> Q20 base 0.2 0.08 0.06
> Q20 coll 1 0.8 0.7
> Q9 base 0.3 0.04 0.01
> Q9 coll 3 0.05 0.01
> Q5 base 1.5 0.3 0.3
> Q5 coll 8.5 6.5 5.7
> Q1 drain 13.5 8.5 7.8
>
> Is the problem around Q9?
>
> Thanks for your help
>
> Simon
>

Simon,
Looks like your probe is reading about half mine - perhaps yours is RMS
reading?

The voltages on Q9 look low... I'm not sure they help to diagnose the
issue.

Looks like it I will have to diagnose this one myself, before I do this
though please count the turns on the LPF inductors.

Steve G6ALU

2591. RE: [mkars80] Low Power Output

Yahoo group: mkars80
Date: 2012-06-11 12:45:05 UTC
From: Simon McGraw
Topic: 2589 Message: 2591

Hi Steve

L1 and L4 have 30 turns but measure 2uH (circuit diagram says 2.7uH)

L2 has 32 turns but measures 2.6uH (should be 3uH)

Do I need to add a few turns until the inductance is right, then try again?

Thanks

Simon

PS Yes my probe is an RMS one, I will build another like your diagram

---

From: mkars80@... [mailto:mkars80@...] On Behalf
Of steve@...
Sent: 11 June 2012 08:18
To: mkars80@...
Subject: Re: [mkars80] Low Power Output

On 2012-06-10 18:40, simonmcgraw@...
<mailto:simonmcgraw%40btinternet.com> wrote:
> Hi Steve.
> I have a low power output on MKARS80.
> The DC voltages all seem to read fine.
>
> I have finally got round to using an RF probe
> (http://n5ese.com/rfprobe1.htm)to check the RF voltages.
>
> Your instruction sheet said to use 12v to check the voltages, is that
> right? (as opposed to 13.8v) I get 3.28w output on 13.8v and 2.50w
> output on 12v
>
> Test Point Table 13.8v 12v
> Q13 Coll 1.1 0.53 0.51
> Q16 Emit 0.66 0.43 0.37
> D20 anode 0.85 0.41 0.29
> Q21 base 0.2 0.13 0.10
> Q21 coll 0.28 0.11 0.08
> Q20 base 0.2 0.08 0.06
> Q20 coll 1 0.8 0.7
> Q9 base 0.3 0.04 0.01
> Q9 coll 3 0.05 0.01
> Q5 base 1.5 0.3 0.3
> Q5 coll 8.5 6.5 5.7

> Q1 drain 13.5 8.5 7.8
>
> Is the problem around Q9?
>
> Thanks for your help
>
> Simon
>

Simon,
Looks like your probe is reading about half mine - perhaps yours is RMS reading?

The voltages on Q9 look low... I'm not sure they help to diagnose the issue.

Looks like it I will have to diagnose this one myself, before I do this though please count the turns on the LPF inductors.

Steve G6ALU

[Non-text portions of this message have been removed]

2592. RE: [mkars80] Low Power Output

Yahoo group: mkars80
Date: 2012-06-11 12:49:58 UTC
From: steve@radio-kits.co.uk
Topic: 2589 Message: 2592

On 2012-06-11 13:45, Simon McGraw wrote:
> Hi Steve
>
> L1 and L4 have 30 turns but measure 2uH (circuit diagram says 2.7uH)
>
> L2 has 32 turns but measures 2.6uH (should be 3uH)
>
>
>
> Do I need to add a few turns until the inductance is right, then try
> again?
>
>
>
> Thanks
>
>
>
> Simon
>
>
>
> PS Yes my probe is an RMS one, I will build another like your diagram
>
>

Don't worry about your LPF... shouldn't attenuate a wanted signal
anyway.

I'm out of ideas Simon! Do you want me to have a look?

Steve

2593. RE: [mkars80] Low Power Output

Yahoo group: mkars80
Date: 2012-06-12 10:44:13 UTC
From: Simon McGraw
Topic: 2589 Message: 2593

Hi Steve

Thank you for your kind offer.

I will see if I can figure it out, I learn better that way!!

Thanks again

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf
Of steve@...
Sent: 11 June 2012 13:50
To: mkars80@...
Subject: RE: [mkars80] Low Power Output

On 2012-06-11 13:45, Simon McGraw wrote:
> Hi Steve
>
> L1 and L4 have 30 turns but measure 2uH (circuit diagram says 2.7uH)
>
> L2 has 32 turns but measures 2.6uH (should be 3uH)
>
>
>
> Do I need to add a few turns until the inductance is right, then try
> again?
>
>
>
> Thanks
>
>
>
> Simon
>
>
>
> PS Yes my probe is an RMS one, I will build another like your diagram
>
>

Don't worry about your LPF... shouldn't attenuate a wanted signal
anyway.

I'm out of ideas Simon! Do you want me to have a look?

Steve

[Non-text portions of this message have been removed]

2594. Re: Low Power Output

Yahoo group: mkars80
Date: 2012-06-24 16:43:13 UTC
From: simonmcgraw@btinternet.com
Topic: 2589 Message: 2594

Hi Steve
I have finally found the problem....it is not the MKARS80, it was the digital swr power meter reading about 2/3 of what it should. Testing against a 50ohm dummy load (http://www.k4eaa.com/dummy.html) and doing the power calculating, my 3.28w output magically became 5w.
I have checked all the toroids on the detector head, all 23 turns, T2 is wound the opposite way to the other 3.
The meter is calibrated to the 23.1W forward and reverse on TP9.
I rotated R31 fully clockwise and it would not go up to the dummy load power value.
The voltages on U3 pins 123 567 are all 0.3v up on the test values.

Do you have any suggestions as to where I need to look for a fault in the power meter?

Thanks a lot

Simon

--- In mkars80@....uk, Simon McGraw <simonmcgraw@...> wrote:
>
> Hi Steve
>
> Thank you for your kind offer.
>
> I will see if I can figure it out, I learn better that way!!
>
> Thanks again
>
> Simon
>
>
>
> _____
>
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of steve@...
> Sent: 11 June 2012 13:50
> To: mkars80@...
> Subject: RE: [mkars80] Low Power Output
>
>
>
>
>
>
> On 2012-06-11 13:45, Simon McGraw wrote:
> > Hi Steve
> >

> > L1 and L4 have 30 turns but measure 2uH (circuit diagram says 2.7uH)
> >
> > L2 has 32 turns but measures 2.6uH (should be 3uH)
> >
> >
> >
> > Do I need to add a few turns until the inductance is right, then try
> > again?
> >
> >
> >
> > Thanks
> >
> >
> >
> > Simon
> >
> >
> >
> > PS Yes my probe is an RMS one, I will build another like your diagram
> >
> >
>
> Don't worry about your LPF... shouldn't attenuate a wanted signal
> anyway.
>
> I'm out of ideas Simon! Do you want me to have a look?
>
> Steve
>
>
>
>
>
> [Non-text portions of this message have been removed]
>

2595. Re: [mkars80] Re: Low Power Output

Yahoo group: mkars80
Date: 2012-06-24 18:28:58 UTC
From: Steve Drury
Topic: 2589 Message: 2595

Simon, what does TP3V9 read?

Steve

On 24/06/2012 17:43, simonmcgraw@... wrote:
> Hi Steve
> I have finally found the problem....it is not the MKARS80, it was the digital swr power meter reading about 2/3 of what it should. Testing against a 50ohm dummy load (http://www.k4eaa.com/dummy.html) and doing the power calculating, my 3.28w output magically became 5w.
> I have checked all the toroids on the detector head, all 23 turns, T2 is wound the opposite way to the other 3.
> The meter is calibrated to the 23.1W forward and reverse on TP9.
> I rotated R31 fully clockwise and it would not go up to the dummy load power value.
> The voltages on U3 pins 123 567 are all 0.3v up on the test values.
>
> Do you have any suggestions as to where I need to look for a fault in the power meter?
>
> Thanks a lot
>
> Simon
>
>
> --- In mkars80@..., Simon McGraw<simonmcgraw@...> wrote:
>> Hi Steve
>>
>> Thank you for your kind offer.
>>
>> I will see if I can figure it out, I learn better that way!!
>>
>> Thanks again
>>
>> Simon
>>
>>
>>
>> _____
>>
>> From: mkars80@... [mailto:mkars80@...] On Behalf
>> Of steve@...
>> Sent: 11 June 2012 13:50
>> To: mkars80@...
>> Subject: RE: [mkars80] Low Power Output
>>
>>

>>
>>
>>
>> On 2012-06-11 13:45, Simon McGraw wrote:
>>> Hi Steve
>>>
>>> L1 and L4 have 30 turns but measure 2uH (circuit diagram says 2.7uH)
>>>
>>> L2 has 32 turns but measures 2.6uH (should be 3uH)
>>>
>>>
>>>
>>> Do I need to add a few turns until the inductance is right, then try
>>> again?
>>>
>>>
>>>
>>> Thanks
>>>
>>>
>>>
>>> Simon
>>>
>>>
>>>
>>> PS Yes my probe is an RMS one, I will build another like your diagram
>>>
>>>
>> Don't worry about your LPF... shouldn't attenuate a wanted signal
>> anyway.
>>
>> I'm out of ideas Simon! Do you want me to have a look?
>>
>> Steve
>>
>>
>>
>>
>>
>> [Non-text portions of this message have been removed]
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2178 / Virus Database: 2437/5090 - Release Date: 06/24/12
>
>

2596. Re: [mkars80] Re: Low Power Output

Yahoo group: mkars80
Date: 2012-06-24 18:31:43 UTC
From: Simon McGraw
Topic: 2589 Message: 2596

It reads 4.32v on 13.8v supply
Simon

On 24 Jun 2012, at 19:28, Steve Drury <steve@...> wrote:

> Simon, what does TP3V9 read?
>
> Steve
>
> On 24/06/2012 17:43, simonmcgraw@... wrote:
> > Hi Steve
> > I have finally found the problem....it is not the MKARS80, it was the digital swr power meter reading about 2/3 of what it should. Testing against a 50ohm dummy load (http://www.k4eaa.com/dummy.html) and doing the power calculating, my 3.28w output magically became 5w.
> > I have checked all the toroids on the detector head, all 23 turns, T2 is wound the opposite way to the other 3.
> > The meter is calibrated to the 23.1W forward and reverse on TP9.
> > I rotated R31 fully clockwise and it would not go up to the dummy load power value.
> > The voltages on U3 pins 123 567 are all 0.3v up on the test values.
> >
> > Do you have any suggestions as to where I need to look for a fault in the power meter?
> >
> > Thanks a lot
> >
> > Simon
> >
> >
> > --- In mkars80@..., Simon McGraw<simonmcgraw@...> wrote:
> >> Hi Steve
> >>
> >> Thank you for your kind offer.
> >>
> >> I will see if I can figure it out, I learn better that way!!
> >>
> >> Thanks again
> >>
> >> Simon
> >>
> >>
> >>
> >> _____
> >>
> >> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
> >> Of steve@...

> >> Sent: 11 June 2012 13:50
> >> To: mkars80@...
> >> Subject: RE: [mkars80] Low Power Output
> >>
> >>
> >>
> >>
> >>
> >> On 2012-06-11 13:45, Simon McGraw wrote:
> >>> Hi Steve
> >>>
> >>> L1 and L4 have 30 turns but measure 2uH (circuit diagram says 2.7uH)
> >>>
> >>> L2 has 32 turns but measures 2.6uH (should be 3uH)
> >>>
> >>>
> >>>
> >>> Do I need to add a few turns until the inductance is right, then try
> >>> again?
> >>>
> >>>
> >>>
> >>> Thanks
> >>>
> >>>
> >>>
> >>> Simon
> >>>
> >>>
> >>>
> >>> PS Yes my probe is an RMS one, I will build another like your diagram
> >>>
> >>>
> >> Don't worry about your LPF... shouldn't attenuate a wanted signal
> >> anyway.
> >>
> >> I'm out of ideas Simon! Do you want me to have a look?
> >>
> >> Steve
> >>
> >>
> >>
> >>
> >>
> >> [Non-text portions of this message have been removed]
> >>
> >>
> >
> > ------------------------------------
> >

> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.2178 / Virus Database: 2437/5090 - Release Date: 06/24/12
> >
> >
>

[Non-text portions of this message have been removed]

2597. Re: [mkars80] Re: Low Power Output

Yahoo group: mkars80
Date: 2012-06-24 18:36:45 UTC
From: Steve Drury
Topic: 2589 Message: 2597

Oh dear... should read very close to 3.9 Volts, can you check the value
of resistors R14 (4k7) and R15 (8k2) also that U1 is fitted the right
way round!

If all OK please send me your address by direct email so I can post you
a replacement reference chip.

Thanks,
Steve G6ALU

On 24/06/2012 19:31, Simon McGraw wrote:
> It reads 4.32v on 13.8v supply
> Simon
>
>
>
> On 24 Jun 2012, at 19:28, Steve Drury<steve@...> wrote:
>
>> Simon, what does TP3V9 read?
>>
>> Steve
>>
>> On 24/06/2012 17:43, simonmcgraw@... wrote:
>>> Hi Steve
>>> I have finally found the problem....it is not the MKARS80, it was the digital swr power
meter reading about 2/3 of what it should. Testing against a 50ohm dummy load
(http://www.k4eaa.com/dummy.html) and doing the power calculating, my 3.28w output
magically became 5w.
>>> I have checked all the toroids on the detector head, all 23 turns, T2 is wound the
opposite way to the other 3.
>>> The meter is calibrated to the 23.1W forward and reverse on TP9.
>>> I rotated R31 fully clockwise and it would not go up to the dummy load power value.
>>> The voltages on U3 pins 123 567 are all 0.3v up on the test values.
>>>
>>> Do you have any suggestions as to where I need to look for a fault in the power meter?
>>>
>>> Thanks a lot
>>>
>>> Simon
>>>
>>>
>>> --- In mkars80@..., Simon McGraw<simonmcgraw@...> wrote:
>>>> Hi Steve
>>>>
>>>> Thank you for your kind offer.
>>>>

>>>> I will see if I can figure it out, I learn better that way!!
>>>>
>>>> Thanks again
>>>>
>>>> Simon
>>>>
>>>>
>>>>
>>>> _____
>>>>
>>>> From: mkars80@... [mailto:mkars80@...] On Behalf
>>>> Of steve@...
>>>> Sent: 11 June 2012 13:50
>>>> To: mkars80@...
>>>> Subject: RE: [mkars80] Low Power Output
>>>>
>>>>
>>>>
>>>>
>>>>
>>>> On 2012-06-11 13:45, Simon McGraw wrote:
>>>>> Hi Steve
>>>>>
>>>>> L1 and L4 have 30 turns but measure 2uH (circuit diagram says 2.7uH)
>>>>>
>>>>> L2 has 32 turns but measures 2.6uH (should be 3uH)
>>>>>
>>>>>
>>>>>
>>>>> Do I need to add a few turns until the inductance is right, then try
>>>>> again?
>>>>>
>>>>>
>>>>>
>>>>> Thanks
>>>>>
>>>>>
>>>>>
>>>>> Simon
>>>>>
>>>>>
>>>>>
>>>>> PS Yes my probe is an RMS one, I will build another like your diagram
>>>>>
>>>>>
>>>> Don't worry about your LPF... shouldn't attenuate a wanted signal
>>>> anyway.
>>>>
>>>> I'm out of ideas Simon! Do you want me to have a look?
>>>>

>>>> Steve
>>>>
>>>>
>>>>
>>>>
>>>>
>>>> [Non-text portions of this message have been removed]
>>>>
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
>>>
>>>
>>>
>>> -----
>>> No virus found in this message.
>>> Checked by AVG - www.avg.com
>>> Version: 2012.0.2178 / Virus Database: 2437/5090 - Release Date: 06/24/12
>>>
>>>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2178 / Virus Database: 2437/5090 - Release Date: 06/24/12
>
>

2598. MKARS80 completed successfully

Yahoo group: mkars80
Date: 2012-07-02 01:24:24 UTC
From: johncronhelm@nl.rogers.com
Topic: 2598 Message: 2598

The project is completed finally after 15 months,interruped by by illness etc. Main problems were of my own making. There were a few cold solder joints and a blown final transistor probably due to use of a temporary heat sink without installing a silicone insulator and also a shorted mike connector. Thanks are due to Steve G6ALU for his ever ready advice when things didn't go so smoothly. My question now is when is there going to be a MKARS40 kit available?John, VO1JCC.

[Non-text portions of this message have been removed]

2599. Re: MKARS80 completed successfully

Yahoo group: mkars80
Date: 2012-07-02 05:46:38 UTC
From: g4gcl
Topic: 2598 Message: 2599

Hi John

I'm sure Steve will come back with the 'official' answer but the 40m version was the subject of several emails which started in mid February 2009.

I know that Ron PA0RCL tried a modification but I lost track of the final outcome.

Glad you got it completed though, have fun.

73,

John.

--- In mkars80@..., "johncronhelm@..." <johncronhelm@...>
wrote:
>
> The project is completed finally after 15 months,interruped by by
> illness etc. Main problems were of my own making. There were a few
cold
> solder joints and a blown final transistor probably due to use of a
> temporary heat sink without installing a silicone insulator and also a
> shorted mike connector. Thanks are due to Steve G6ALU for his ever
> ready advice when things didn't go so smoothly. My question now is
when
> is there going to be a MKARS40 kit available?John, VO1JCC.
>
>
> [Non-text portions of this message have been removed]
>

2600. Re: [mkars80] Re: MKARS80 completed successfully

Yahoo group: mkars80
Date: 2012-07-02 07:13:12 UTC
From: steve@radio-kits.co.uk
Topic: 2598 Message: 2600

Morning,

I modified an MKARS80 to 40M but there were some problems, all were resolved except the need for AGC... perhaps I will look at this again sometime.

Steve

On 2012-07-02 05:46, g4gcl wrote:
> Hi John
>
> I'm sure Steve will come back with the 'official' answer but the 40m
> version was the subject of several emails which started in mid
> February
> 2009.
>
> I know that Ron PA0RCL tried a modification but I lost track of the
> final outcome.
>
> Glad you got it completed though, have fun.
>
> 73,
>
> John.

2601. Battery Power for MKARS80

Yahoo group: mkars80
Date: 2012-07-02 22:55:43 UTC
From: johncronhelm@nl.rogers.com
Topic: 2601 Message: 2601

I use a 7 amp hr. Gel Cel battery for my rig which works well but a bit heavy to carry around for portable use. I get the impression that 8 AA Batteries in a holder might not deliver enough amperage for 5 watt output on transmit. Am I correct? What other type of battery set up could I use?Thanks, John VO1JCC

[Non-text portions of this message have been removed]

2602. Re: [mkars80] Re: MKARS80 completed successfully

Yahoo group: mkars80
Date: 2012-07-04 15:43:19 UTC
From: Michael Meerman
Topic: 2598 Message: 2602

I read on Ron's webpage that the 40m conversion of MKARS80 was a non-starter
See: http://www.pa0rcl.com/PA0RCL/MKARS40.html

But if there is going to be a -40 version I'm sure to get it!

rgds

Michael M0MPM

On 2 July 2012 06:46, g4gcl <john@...> wrote:

> **
>
>
>
> Hi John
>
> I'm sure Steve will come back with the 'official' answer but the 40m
> version was the subject of several emails which started in mid February
> 2009.
>
> I know that Ron PA0RCL tried a modification but I lost track of the
> final outcome.
>
> Glad you got it completed though, have fun.
>
> 73,
>
> John.
>
> --- In mkars80@..., "johncronhelm@..." <johncronhelm@...>
> wrote:
>
> >
> > The project is completed finally after 15 months,interruped by by
> > illness etc. Main problems were of my own making. There were a few
> cold
> > solder joints and a blown final transistor probably due to use of a
> > temporary heat sink without installing a silicone insulator and also a
> > shorted mike connector. Thanks are due to Steve G6ALU for his ever
> > ready advice when things didn't go so smoothly. My question now is
> when
> > is there going to be a MKARS40 kit available?John, VO1JCC.
> >
> >
> > [Non-text portions of this message have been removed]

> >
>
>
>

[Non-text portions of this message have been removed]

2603. Re: Low Power Output

Yahoo group: mkars80
Date: 2012-07-04 21:16:21 UTC
From: simonmcgraw@btinternet.com
Topic: 2589 Message: 2603

Hi Steve
I had full power for about 10secs, then no power output (again!)
Using the Tx data sheet, my Q16 emitter is)0.632v but the anode of D20 is 0.118v, does that mean Q22 has died?

If so, is it a "B" class amplifier?...the BC 547s appear to be available as A, B and C class amplifiers

Thanks a lot

Simon

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Oh dear... should read very close to 3.9 Volts, can you check the value
> of resistors R14 (4k7) and R15 (8k2) also that U1 is fitted the right
> way round!
>
> If all OK please send me your address by direct email so I can post you
> a replacement reference chip.
>
> Thanks,
> Steve G6ALU
>
> On 24/06/2012 19:31, Simon McGraw wrote:
> > It reads 4.32v on 13.8v supply
> > Simon
> >
> >
> >
> > On 24 Jun 2012, at 19:28, Steve Drury<steve@...> wrote:
> >
> >> Simon, what does TP3V9 read?
> >>
> >> Steve
> >>
> >> On 24/06/2012 17:43, simonmcgraw@... wrote:
> >>> Hi Steve
> >>> I have finally found the problem....it is not the MKARS80, it was the digital swr power meter reading about 2/3 of what it should. Testing against a 50ohm dummy load (http://www.k4eaa.com/dummy.html) and doing the power calculating, my 3.28w output magically became 5w.
> >>> I have checked all the toroids on the detector head, all 23 turns, T2 is wound the opposite way to the other 3.
> >>> The meter is calibrated to the 23.1W forward and reverse on TP9.
> >>> I rotated R31 fully clockwise and it would not go up to the dummy load power value.

> >>> The voltages on U3 pins 123 567 are all 0.3v up on the test values.
> >>>
> >>> Do you have any suggestions as to where I need to look for a fault in the power meter?
> >>>
> >>> Thanks a lot
> >>>
> >>> Simon
> >>>
> >>>
> >>> --- In mkars80@..., Simon McGraw<simonmcgraw@> wrote:
> >>>> Hi Steve
> >>>>
> >>>> Thank you for your kind offer.
> >>>>
> >>>> I will see if I can figure it out, I learn better that way!!
> >>>>
> >>>> Thanks again
> >>>>
> >>>> Simon
> >>>>
> >>>>
> >>>>
> >>>> _____
> >>>>
> >>>> From: mkars80@... [mailto:mkars80@...] On Behalf
> >>>> Of steve@
> >>>> Sent: 11 June 2012 13:50
> >>>> To: mkars80@...
> >>>> Subject: RE: [mkars80] Low Power Output
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>
> >>>> On 2012-06-11 13:45, Simon McGraw wrote:
> >>>>> Hi Steve
> >>>>>
> >>>>> L1 and L4 have 30 turns but measure 2uH (circuit diagram says 2.7uH)
> >>>>>
> >>>>> L2 has 32 turns but measures 2.6uH (should be 3uH)
> >>>>>
> >>>>>
> >>>>>
> >>>>> Do I need to add a few turns until the inductance is right, then try
> >>>>> again?
> >>>>>
> >>>>>
> >>>>>
> >>>>> Thanks

> >>>>>
> >>>>>
> >>>>>
> >>>>> Simon
> >>>>>
> >>>>>
> >>>>>
> >>>>> PS Yes my probe is an RMS one, I will build another like your diagram
> >>>>>
> >>>>>
> >>>> Don't worry about your LPF... shouldn't attenuate a wanted signal
> >>>> anyway.
> >>>>
> >>>> I'm out of ideas Simon! Do you want me to have a look?
> >>>>
> >>>> Steve
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>
> >>>> [Non-text portions of this message have been removed]
> >>>>
> >>>
> >>> ------------------------------------
> >>>
> >>> Yahoo! Groups Links
> >>>
> >>>
> >>>
> >>>
> >>>
> >>> -----
> >>> No virus found in this message.
> >>> Checked by AVG - www.avg.com
> >>> Version: 2012.0.2178 / Virus Database: 2437/5090 - Release Date: 06/24/12
> >>>
> >>>
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >

> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.2178 / Virus Database: 2437/5090 - Release Date: 06/24/12
> >
> >
>

2604. Hiss only, no output and Hello!

Yahoo group: mkars80
Date: 2012-07-08 20:42:41 UTC
From: stu_m0mmz
Topic: 2604 Message: 2604

Firstly, Hello, I'm new to the group.

I was fervently reading through many topics on Friday before posting here. This topic has been covered many times and usually has the same output so I've tried things first.

I have successfully built my MKARS80 a little while ago. Unfortunately, due to incorrectly picking the wrong grounding point, my initial voltages were wrong. By the time I realised, later the same day, I had already taken out and re-soldered many of the components so my board isn't half as pretty as it was when I first completed it!

Now, having the correct initial voltages, I now seem to have a common problem.

When putting power to the board, I get a low-volume hiss out of the loudspeaker, as expected, but nothing more. I have connected a good antenna to it (which I tested with another rig). I tried another speaker too, but got the same thing.

I have tested thoroughly all my transformers, including remaking two of them, checking that the enamel has been removed before soldering them in, checking the joints once they were soldered in and so on. I have also taken them all out at least once and re-applied them. I'm 99.999999% convinced that there are no bad joints on them and that the enamel has definitely been removed. They aren't short-circuited or anything like that.

So where to start? Any other ideas? Anything else I can check?

I have put the IC in place as well as the display. The voltage on screen is good, I've got the display showing the correct frequency. I've checked the voltages on the 2 ICs and whilst they aren't wildly out, they aren't quite as perfect as the voltages at R34 and VR2 (these two were right to within 1/100 of a volt).

2605. Re: Hiss only, no output and Hello!

Yahoo group: mkars80
Date: 2012-07-08 21:00:04 UTC
From: Michael Meerman
Topic: 2604 Message: 2605

Hi, welcome to the club!
80m conditions have been very bad. Did you check on another rx that there were signals receivable?
If you don't have another rx, you could use one of the websdr stations, choose one nearby, if there is.
See www.websdr.org. If you're lucky, you could hear yourself !

Rgds,

Michael M0MPM

Sent from my iPhone

2606. Re: Hiss only, no output and Hello!

Yahoo group: mkars80
Date: 2012-07-08 21:13:51 UTC
From: stu_m0mmz
Topic: 2604 Message: 2606

Hi Michael,

Whilst I accept that conditions weren't brilliant, I also have an icom IC-718 rig which I tested and seemed to be picking up the usual Italian stations chatter at the time which was why I was surprised that the MKARS80 was so deaf.

This was on Friday afternoon btw. I have just checked again - I can hear quite a bit of activity on that, but nothing beyond a low-volume hiss on the MKARS.

Even if I couldn't hear anything, I would expect the hiss to go up and down in tone if nothing else.

Cheers for taking interest in my post though and taking the time to reply.

73 de Stu M0MMZ

--- In mkars80@..., Michael Meerman <mljmeerman@...> wrote:
>
> Hi, welcome to the club!
> 80m conditions have been very bad. Did you check on another rx that there were signals receivable?
> If you don't have another rx, you could use one of the websdr stations, choose one nearby, if there is.
> See www.websdr.org. If you're lucky, you could hear yourself !
>
> Rgds,
>
> Michael M0MPM
>
> Sent from my iPhone
>

2607. Re: [mkars80] Re: Hiss only, no output and Hello!

Yahoo group: mkars80
Date: 2012-07-08 22:20:37 UTC
From: Michael Meerman
Topic: 2604 Message: 2607

Hi Stu, unfortunately I cannot much other advise,it almost sounds like the antenna is internally not connected, but I suppose you checked for those obvious things.
I was lucky that despite my limited experience in building things, the mkars80 worked first time, and I made dozens of contacts, especially contests are great for testing it out. My best dx is about 1500km, all barefoot (ie 5 watts) on a end fed inverted L antenna.
Having said that,I actually did have one loose connection which was one of the coils, but wiggeling it quickly showed were the problem was.
The effect was the same as you described,so you may want to check because those wires are somewhat difficult to solder properly.
Wish you good luck, at least you have another rig to get on the air - and so have I - an ft757 - I'll be running GX4WAB on wednesday morning from about 6am to 10am on 40m at 7160+/-qrm so you may catch me there!

73 Michael M0MPM

On 8 July 2012 22:13, stu_m0mmz <bigfoot@crann.co.uk> wrote:

> **
>
>
> Hi Michael,
>
> Whilst I accept that conditions weren't brilliant, I also have an icom
> IC-718 rig which I tested and seemed to be picking up the usual Italian
> stations chatter at the time which was why I was surprised that the MKARS80
> was so deaf.
>
> This was on Friday afternoon btw. I have just checked again - I can hear
> quite a bit of activity on that, but nothing beyond a low-volume hiss on
> the MKARS.
>
> Even if I couldn't hear anything, I would expect the hiss to go up and
> down in tone if nothing else.
>
> Cheers for taking interest in my post though and taking the time to reply.
>
> 73 de Stu M0MMZ
>
>
> --- In mkars80@yahoogroups.co.uk, Michael Meerman <mljmeerman@...> wrote:
> >
> > Hi, welcome to the club!
> > 80m conditions have been very bad. Did you check on another rx that
> there were signals receivable?

> > If you don't have another rx, you could use one of the websdr stations,
> choose one nearby, if there is.
> > See www.websdr.org. If you're lucky, you could hear yourself !
> >
> > Rgds,
> >
> > Michael M0MPM
> >
> > Sent from my iPhone
> >
>
>
>

[Non-text portions of this message have been removed]

2608. Re: [mkars80] Re: Hiss only, no output and Hello!

Yahoo group: mkars80
Date: 2012-07-09 07:12:35 UTC
From: steve@radio-kits.co.uk
Topic: 2604 Message: 2608

On 2012-07-08 22:20, Michael Meerman wrote:
> Hi Stu, unfortunately I cannot much other advise,it almost sounds
> like the
> antenna is internally not connected, but I suppose you checked for
> those obvious things.
> I was lucky that despite my limited experience in building things,
> the
> mkars80 worked first time, and I made dozens of contacts, especially
> contests are great for testing it out. My best dx is about 1500km,
> all
> barefoot (ie 5 watts) on a end fed inverted L antenna.
> Having said that,I actually did have one loose connection which was
> one of
> the coils, but wiggeling it quickly showed were the problem was.
> The effect was the same as you described,so you may want to check
> because
> those wires are somewhat difficult to solder properly.
> Wish you good luck, at least you have another rig to get on the air -
> and
> so have I - an ft757 - I'll be running GX4WAB on wednesday morning
> from
> about 6am to 10am on 40m at 7160+/-qrm so you may catch me there!
>
> 73 Michael M0MPM

Morning,
The hiss will be coming from the audio amp, the LM386 is a little
noisey when set to high gain.

Does it transmit at a reasonable power, 4 to 5W? If so its likely the
transformers are wound and fitted OK, if not then re-visit them. If its
not the transformers then DC checks normally find the problem.

There was a list of RF voltages in a the files section, see:

http://uk.groups.yahoo.com/group/mkars80/files/MKARS80%20Fault%20finding/

These will help fault finding in TX mode.

Let us know how you get on....
Steve G6ALU

2609. Re: Hiss only, no output and Hello!

Yahoo group: mkars80
Date: 2012-07-09 10:49:01 UTC
From: johncronhelm@nl.rogers.com
Topic: 2604 Message: 2609

Hi Stu. Here is something simple to check. I had this" his"for a time until it was discovered I had a dud BNC connector. i changed it and all was well with the receiver. Check to see if the centre pin is intact.
John VO1JCC.

--- In mkars80@..., "stu_m0mmz" <bigfoot@...> wrote:
>
> Hi Michael,
>
> Whilst I accept that conditions weren't brilliant, I also have an icom IC-718 rig which I tested and seemed to be picking up the usual Italian stations chatter at the time which was why I was surprised that the MKARS80 was so deaf.
>
> This was on Friday afternoon btw. I have just checked again - I can hear quite a bit of activity on that, but nothing beyond a low-volume hiss on the MKARS.
>
> Even if I couldn't hear anything, I would expect the hiss to go up and down in tone if nothing else.
>
> Cheers for taking interest in my post though and taking the time to reply.
>
> 73 de Stu M0MMZ
>
> --- In mkars80@..., Michael Meerman <mljmeerman@> wrote:
> >
> > Hi, welcome to the club!
> > 80m conditions have been very bad. Did you check on another rx that there were signals receivable?
> > If you don't have another rx, you could use one of the websdr stations, choose one nearby, if there is.
> > See www.websdr.org. If you're lucky, you could hear yourself !
> >
> > Rgds,
> >
> > Michael M0MPM
> >
> > Sent from my iPhone
> >
>

2610. Re: Hiss only, no output and Hello!

Yahoo group: mkars80
Date: 2012-07-09 11:02:02 UTC
From: stu_m0mmz
Topic: 2604 Message: 2610

Thanks John. Something I hadn't considered. I clearly checked and double checked my antenna connections, but not the actual connection from the board through to the adaptor.

I'll try it tonight.

--- In mkars80@yahoogroups.co.uk, "johncronhelm@..." <johncronhelm@...> wrote:
>
> Hi Stu. Here is something simple to check. I had this" his"for a time until it was discovered I had a dud BNC connector. i changed it and all was well with the receiver. Check to see if the centre pin is intact.
> John VO1JCC.
>
> --- In mkars80@..., "stu_m0mmz" <bigfoot@> wrote:
> >
> > Hi Michael,
> >
> > Whilst I accept that conditions weren't brilliant, I also have an icom IC-718 rig which I tested and seemed to be picking up the usual Italian stations chatter at the time which was why I was surprised that the MKARS80 was so deaf.
> >
> > This was on Friday afternoon btw. I have just checked again - I can hear quite a bit of activity on that, but nothing beyond a low-volume hiss on the MKARS.
> >
> > Even if I couldn't hear anything, I would expect the hiss to go up and down in tone if nothing else.
> >
> > Cheers for taking interest in my post though and taking the time to reply.
> >
> > 73 de Stu M0MMZ
> >
> > --- In mkars80@..., Michael Meerman <mljmeerman@> wrote:
> > >
> > > Hi, welcome to the club!
> > > 80m conditions have been very bad. Did you check on another rx that there were signals receivable?
> > > If you don't have another rx, you could use one of the websdr stations, choose one nearby, if there is.
> > > See www.websdr.org. If you're lucky, you could hear yourself !
> > >
> > > Rgds,
> > >
> > > Michael M0MPM
> > >
> > > Sent from my iPhone
> > >

> >
>

2611. Re: Hiss only, no output and Hello!

Yahoo group: mkars80
Date: 2012-07-09 11:05:08 UTC
From: stu_m0mmz
Topic: 2604 Message: 2611

--- In mkars80@..., steve@... wrote:

>
> Morning,
> The hiss will be coming from the audio amp, the LM386 is a little
> noisey when set to high gain.
>
> Does it transmit at a reasonable power, 4 to 5W? If so its likely the
> transformers are wound and fitted OK, if not then re-visit them. If its
> not the transformers then DC checks normally find the problem.
>
> There was a list of RF voltages in a the files section, see:
>
> http://uk.groups.yahoo.com/group/mkars80/files/MKARS80%20Fault%20finding/
>
> These will help fault finding in TX mode.
>
> Let us know how you get on....
> Steve G6ALU
>

Thanks Steve. I wanted to get receive working before I moved onto Transmit. The hiss from the audio amp is actually quite welcome - it shows that something must be working!

I read about the transformers from a previous poster who was having the same problem. I'm not sure he ever fixed it!

2612. No power output

Yahoo group: mkars80
Date: 2012-07-11 22:45:41 UTC
From: simonmcgraw@btinternet.com
Topic: 2612 Message: 2612

Hi
I am trying to trace the transmit power through the circuit. Everything is fine up to Q21. At Q21 I have normal DC voltages, 0.2vRF using Steves RF probe at the base and negligible RF at the collector, I have tried 3 different BC547s which has made no difference. I took out T6 and the RF voltage came up to 0.28v at the collector Q21. I have re-wound T6 put it back and there is again negligible output at the collector of Q21.

DO you have any suggestions where I should go next?

Thanks a lot

Simon

2613. Re: No power output

Yahoo group: mkars80
Date: 2012-07-12 10:22:04 UTC
From: johncronhelm@nl.rogers.com
Topic: 2612 Message: 2613

Hi Simon,
Is D17 correctly orientated, probably is but just in case!
John.

--- In mkars80@..., "simonmcgraw@..." <simonmcgraw@...> wrote:
>
> Hi
> I am trying to trace the transmit power through the circuit. Everything is fine up to Q21. At Q21 I have normal DC voltages, 0.2vRF using Steves RF probe at the base and negligible RF at the collector, I have tried 3 different BC547s which has made no difference. I took out T6 and the RF voltage came up to 0.28v at the collector Q21. I have re-wound T6 put it back and there is again negligible output at the collector of Q21.
>
> DO you have any suggestions where I should go next?
>
> Thanks a lot
>
> Simon
>

2614. Re: [mkars80] Re: No power output

Yahoo group: mkars80
Date: 2012-07-12 12:38:06 UTC
From: Simon McGraw
Topic: 2612 Message: 2614

Hi John
Yes D17 is the right way round.
Thanks for your thoughts
Simon

On 12 Jul 2012, at 11:22, "johncronhelm@..." <johncronhelm@...rs.com> wrote:

> Hi Simon,
> Is D17 correctly orientated, probably is but just in case!
> John.
>
> --- In mkars80@..., "simonmcgraw@..." <simonmcgraw@...> wrote:
> >
> > Hi
> > I am trying to trace the transmit power through the circuit. Everything is fine up to Q21. At Q21 I have normal DC voltages, 0.2vRF using Steves RF probe at the base and negligible RF at the collector, I have tried 3 different BC547s which has made no difference. I took out T6 and the RF voltage came up to 0.28v at the collector Q21. I have re-wound T6 put it back and there is again negligible output at the collector of Q21.
> >
> > DO you have any suggestions where I should go next?
> >
> > Thanks a lot
> >
> > Simon
> >
>
>

[Non-text portions of this message have been removed]

2615. Re: [mkars80] No power output

Yahoo group: mkars80
Date: 2012-07-12 19:56:06 UTC
From: Steve Drury
Topic: 2612 Message: 2615

What have you got on the collector of Q20?

Steve

On 11/07/2012 23:45, simonmcgraw@... wrote:
> Hi
> I am trying to trace the transmit power through the circuit. Everything is fine up to Q21. At Q21 I have normal DC voltages, 0.2vRF using Steves RF probe at the base and negligible RF at the collector, I have tried 3 different BC547s which has made no difference. I took out T6 and the RF voltage came up to 0.28v at the collector Q21. I have re-wound T6 put it back and there is again negligible output at the collector of Q21.
>
> DO you have any suggestions where I should go next?
>
> Thanks a lot
>
> Simon
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2178 / Virus Database: 2437/5127 - Release Date: 07/12/12
>
>

2616. Re: [mkars80] No power output

Yahoo group: mkars80
Date: 2012-07-13 06:56:32 UTC
From: Simon McGraw
Topic: 2612 Message: 2616

Hi Steve
I have dc 0v on Rx, 7.5v on Tx and 0.1v RF on Tx
Thanksa lot Simon

On 12 Jul 2012, at 20:56, Steve Drury <steve@...> wrote:

> What have you got on the collector of Q20?
>
> Steve
>
> On 11/07/2012 23:45, simonmcgraw@... wrote:
> > Hi
> > I am trying to trace the transmit power through the circuit. Everything is fine up to Q21. At Q21 I have normal DC voltages, 0.2vRF using Steves RF probe at the base and negligible RF at the collector, I have tried 3 different BC547s which has made no difference. I took out T6 and the RF voltage came up to 0.28v at the collector Q21. I have re-wound T6 put it back and there is again negligible output at the collector of Q21.
> >
> > DO you have any suggestions where I should go next?
> >
> > Thanks a lot
> >
> > Simon
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.2178 / Virus Database: 2437/5127 - Release Date: 07/12/12
> >
> >
>
>

[Non-text portions of this message have been removed]

2617. Elliot 6:1 reduction for Tuning

Yahoo group: mkars80
Date: 2012-08-03 15:41:48 UTC
From: pe1fjn
Topic: 2617 Message: 2617

MKARS80 People,

Was able to construct T1340 and T1380 where I added a 10 turn bourns and dial to make easy tuning possible.9QRZ.COM) Similar stuff I plan to implement on the MKARS80 kit from the start, now just starting, just completed BAG1 (HI).

I'm considering to purchase a 1:6 reduction gearbox from Elliot company.

Does anyone experience with similar solution?, and know where to buy in Europe, so far I found address in the USA only.

73
PE1FJN
Marc

2618. Re: [mkars80] Elliot 6:1 reduction for Tuning

Yahoo group: mkars80
Date: 2012-08-03 15:58:37 UTC
From: John
Topic: 2617 Message: 2618

Hello Marc
On my MKARS80 which is in its original case I fitted one of these 10:1
drives http://www.mainlinegroup.co.uk/jacksonbrothers/6020.htm

Jackson Brothers who made them have had problems and I'm not sure if
they still exist but I called the distributors Mainline Electronics and
they are starting production.
They have the 6020/1 in stock but production of the 6020/2 has not
started yet and they think 4 - 6 weeks.

I bought 2 of each, used 1 and gave the other to a guy in California
because he couldn't find something which he knew was suitable.
I have 2 of the 6020/1's left so I assume I used the 6020/2 on the radio.

They are very small and fit very nicely with no real modifications
needed apart from cutting the knob shaft to length.

If you need any more info please ask.

Very best regards,
John.

On 03/08/2012 16:41, pe1fjn wrote:
>
> MKARS80 People,
>
> Was able to construct T1340 and T1380 where I added a 10 turn bourns
> and dial to make easy tuning possible.9QRZ.COM) Similar stuff I plan
> to implement on the MKARS80 kit from the start, now just starting,
> just completed BAG1 (HI).
>
> I'm considering to purchase a 1:6 reduction gearbox from Elliot company.
>
> Does anyone experience with similar solution?, and know where to buy
> in Europe, so far I found address in the USA only.
>
> 73
> PE1FJN
> Marc
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2012.0.2197 / Virus Database: 2437/5173 - Release Date: 08/02/12
>

[Non-text portions of this message have been removed]

2619. Transatlantic Contacts

Yahoo group: mkars80
Date: 2012-08-21 23:14:54 UTC
From: johncronhelm@nl.rogers.com
Topic: 2619 Message: 2619

Hi All ,
Wanted to let you know how wonderful the MKARS80 is. Within this week I have made a contact with England and another with Denmark running 5watts into a vertical antenna around 0030 Z 3.789 Mhz. The signal strength received was low but enough to be readable. I look forward to making contact with another MKARS80.during the autumn and winter.
73 John VO1JCC.
,

2620. Re: [mkars80] Transatlantic Contacts

Yahoo group: mkars80
Date: 2012-08-22 06:00:00 UTC
From: MPW
Topic: 2619 Message: 2620

Hello John.
I will have time in winter for a contact. Yes MKARS 80 is a very nice small transceiver. I have a lot of compliments with it!
73 Philippe F5MPW

Hi All ,
Wanted to let you know how wonderful the MKARS80 is. Within this week I have made a contact with England and another with Denmark running 5watts into a vertical antenna around 0030 Z 3.789 Mhz. The signal strength received was low but enough to be readable. I look forward to making contact with another MKARS80.during the autumn and winter.
73 John VO1JCC.
,

[Non-text portions of this message have been removed]

2621. Re: Transatlantic Contacts

Yahoo group: mkars80
Date: 2012-08-23 06:28:49 UTC
From: woodiescbj
Topic: 2619 Message: 2621

Hi John, It is a great kit I have also managed a transatlantic QSO with an OM on Prince Edward Island, my antenna is a fullsize G5RV folded into a horizontal open ended delta loop, this way it only takes up 1/3 of the space and just fits into our small back yard.

I need some sort of AGC as I am often portable and need to use heaphones it is something I am still looking into.

I look forward to a QSO with you on the MKARS80 one day when conditions allow it.

Vy 73 and good DX de Colin DD5CF / G1ZOS

--- In mkars80@yahoogroups.co.uk, "johncronhelm@..." <johncronhelm@...> wrote:
>
> Hi All ,
> Wanted to let you know how wonderful the MKARS80 is. Within this week I have made a contact with England and another with Denmark running 5watts into a vertical antenna around 0030 Z 3.789 Mhz. The signal strength received was low but enough to be readable. I look forward to making contact with another MKARS80.during the autumn and winter.
> 73 John VO1JCC.
> ,
>

2622. Low Cost Temp Controlled Solder Station, easy Enamel soldering/FYI

Yahoo group: mkars80
Date: 2012-08-28 19:03:09 UTC
From: pe1fjn
Topic: 2622 Message: 2622

Just to share an experience with transformes T1,etc.:

I was very worried about the transformers, but with a low cost temp controlled solder iron adjusted at 360-390C, it easy to solder the wires succesfully to the boards.

The "production" of transformers is fun and I like it.

73
PE1FJN
Marc

2623. WOW, MKARS80 FB RX !

Yahoo group: mkars80
Date: 2012-09-01 19:14:04 UTC
From: pe1fjn
Topic: 2623 Message: 2623

So today I completed most part of the kit, and was able to connect the RIG to the antenna 19:00UTC, very fine RX tonight on 80m, many many strong signals come trough in SSB.

Now 2-3 weeks no time to complete kit, so true TX after drilling holes in the case most likely in October, again the RX quality is big nice surprise for me. The LSB filter is very fine, and the RX has no problems with many strong, unbelievable strong, OZ stations now on the band.

73
PE1FJN

Now uploading RX test to youtube, can be found later today on cwqrp

2624. Audio problems

Yahoo group: mkars80
Date: 2012-09-13 16:29:54 UTC
From: g4biy
Topic: 2624 Message: 2624

My MKARS80 works well on receive and seems to be putting out a signal but the audio seems very poor quality and there seems to be too much mic gain. Tried fiddling with the mic bias resistor but no improvement. Injecting audio from external source seems better, ie radio 4 - into dummy load. Wonder if electret mic is faulty. Any suggestions?

2625. Re: [mkars80] Audio problems

Yahoo group: mkars80
Date: 2012-09-13 21:41:10 UTC
From: Steve Drury
Topic: 2624 Message: 2625

Has the BFO been correctly set? Best to set accurately with a frequency
counter.

Has the PA transistor bias been set properly?

Could be the electret but they are normally quite good, what type is it?

Regards,
Steve G6ALU

On 13/09/2012 17:29, g4biy wrote:
> My MKARS80 works well on receive and seems to be putting out a signal but the audio seems very poor quality and there seems to be too much mic gain. Tried fiddling with the mic bias resistor but no improvement. Injecting audio from external source seems better, ie radio 4 - into dummy load. Wonder if electret mic is faulty. Any suggestions?
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2221 / Virus Database: 2437/5266 - Release Date: 09/13/12
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>

2626. Re: Audio problems

Yahoo group: mkars80
Date: 2012-09-14 08:27:18 UTC
From: g4biy
Topic: 2624 Message: 2626

Thanks Steve, I'll check your suggestions. Mic was from Maplin - not sure of type

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Has the BFO been correctly set? Best to set accurately with a frequency
> counter.
>
> Has the PA transistor bias been set properly?
>
> Could be the electret but they are normally quite good, what type is it?
>
> Regards,
> Steve G6ALU
>
> On 13/09/2012 17:29, g4biy wrote:
> > My MKARS80 works well on receive and seems to be putting out a signal but the audio seems very poor quality and there seems to be too much mic gain. Tried fiddling with the mic bias resistor but no improvement. Injecting audio from external source seems better, ie radio 4 - into dummy load. Wonder if electret mic is faulty. Any suggestions?
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.2221 / Virus Database: 2437/5266 - Release Date: 09/13/12
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2627. Re: [mkars80] Re: Audio problems

Yahoo group: mkars80
Date: 2012-09-14 08:50:34 UTC
From: steve@radio-kits.co.uk
Topic: 2624 Message: 2627

I haven't had any reports of problems with Maplin mike, if you give me the Maplin part number I will take a look to see if its suitable.

Steve

On 2012-09-14 08:27, g4biy wrote:
> Thanks Steve, I'll check your suggestions. Mic was from Maplin - not sure of type
>
> --- In mkars80@..., Steve Drury <steve@...> wrote:
>>
>> Has the BFO been correctly set? Best to set accurately with a frequency
>> counter.
>>
>> Has the PA transistor bias been set properly?
>>
>> Could be the electret but they are normally quite good, what type is
>> it?
>>
>> Regards,
>> Steve G6ALU
>>
>> On 13/09/2012 17:29, g4biy wrote:
>> > My MKARS80 works well on receive and seems to be putting out a
>> signal but the audio seems very poor quality and there seems to be too
>> much mic gain. Tried fiddling with the mic bias resistor but no
>> improvement. Injecting audio from external source seems better, ie
>> radio 4 - into dummy load. Wonder if electret mic is faulty. Any
>> suggestions?

2628. Mkars 40 or 20m

Yahoo group: mkars80
Date: 2012-09-14 09:31:28 UTC
From: F5mpw
Topic: 2628 Message: 2628

Hello to the list...

Steve, I should like to built MKARS 40 or 20m ;-) do you prepare news kits?
My Mkars 80 works always very well! But winter in coming kits are a good occupation!

73 philippe

----- Original Message -----
From: steve@...
To: mkars80@...
Sent: Friday, September 14, 2012 10:50 AM
Subject: Re: [mkars80] Re: Audio problems

I haven't had any reports of problems with Maplin mike, if you give me
the Maplin part number I will take a look to see if its suitable.

Steve

On 2012-09-14 08:27, g4biy wrote:
> Thanks Steve, I'll check your suggestions. Mic was from Maplin - not
> sure of type
>
> --- In mkars80@..., Steve Drury <steve@...> wrote:
>>
>> Has the BFO been correctly set? Best to set accurately with a
>> frequency
>> counter.
>>
>> Has the PA transistor bias been set properly?
>>
>> Could be the electret but they are normally quite good, what type is
>> it?
>>
>> Regards,
>> Steve G6ALU
>>
>> On 13/09/2012 17:29, g4biy wrote:
>> > My MKARS80 works well on receive and seems to be putting out a
>> signal but the audio seems very poor quality and there seems to be too
>> much mic gain. Tried fiddling with the mic bias resistor but no
>> improvement. Injecting audio from external source seems better, ie
>> radio 4 - into dummy load. Wonder if electret mic is faulty. Any
>> suggestions?

[Non-text portions of this message have been removed]

2629. Re: Audio problems

Yahoo group: mkars80
Date: 2012-09-16 17:57:24 UTC
From: Mark
Topic: 2624 Message: 2629

Hi,

Might I offer a couple ideas?

I think since you say your set receives very well, then maybe your BFO setting is not too bad.

Do I understand you correctly when you say you are injecting audio from an external source, that you are putting the mic up to a radio that is playing some bbc broadcast and then listening on another rig close by?

If this is the case, then I would think the microphone is OK. And when on dummy load your sound is good, but on an antenna not. This would point to RF getting into your mic amp and you will need some isolation there.

On a dummy load, your SWR is perfect and the dummy radiates RF only a little bit. But on an antenna your SWR can be a bit off and your feedline, and antenna if it is close, can radiate a lot of local RF. This then has a chance to get into your mic amp and cause lots of trouble.

You might then need an RF choke inside the rig on the mic line. Sometimes folks also put a cap from base to ground on the mic amp transistor to shunt RF to ground there too.

73 and best of luck,

Mark.

--- In mkars80@..., "g4biy" <g4biy@...> wrote:
>
> My MKARS80 works well on receive and seems to be putting out a signal but the audio seems very poor quality and there seems to be too much mic gain. Tried fiddling with the mic bias resistor but no improvement. Injecting audio from external source seems better, ie radio 4 - into dummy load. Wonder if electret mic is faulty. Any suggestions?
>

2630. Re: [mkars80] Re: Audio problems

Yahoo group: mkars80
Date: 2012-09-16 18:32:20 UTC
From: Steve Drury
Topic: 2624 Message: 2630

Mark,

For the MKARS80 there is no problem with RF break through into the microphone amplifier, I'm assuming of course that the microphone lead is adequately screened.

Please refer to the diagram; there is already a 1nF decoupling capacitor on the microphone input (C15).

Regards,
Steve G6ALU

On 16/09/2012 18:57, Mark wrote:
> Hi,
>
> Might I offer a couple ideas?
>
> I think since you say your set receives very well, then maybe your BFO setting is not too bad.
>
> Do I understand you correctly when you say you are injecting audio from an external source, that you are putting the mic up to a radio that is playing some bbc broadcast and then listening on another rig close by?
>
> If this is the case, then I would think the microphone is OK. And when on dummy load your sound is good, but on an antenna not. This would point to RF getting into your mic amp and you will need some isolation there.
>
> On a dummy load, your SWR is perfect and the dummy radiates RF only a little bit. But on an antenna your SWR can be a bit off and your feedline, and antenna if it is close, can radiate a lot of local RF. This then has a chance to get into your mic amp and cause lots of trouble.
>
> You might then need an RF choke inside the rig on the mic line. Sometimes folks also put a cap from base to ground on the mic amp transistor to shunt RF to ground there too.
>
> 73 and best of luck,
>
> Mark.
>
>
>
>
> --- In mkars80@..., "g4biy" <g4biy@...> wrote:
>> My MKARS80 works well on receive and seems to be putting out a signal but the audio seems very poor quality and there seems to be too much mic gain. Tried fiddling with the

mic bias resistor but no improvement. Injecting audio from external source seems better, ie radio 4 - into dummy load. Wonder if electret mic is faulty. Any suggestions?
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2221 / Virus Database: 2437/5271 - Release Date: 09/16/12
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2631. Re: Audio problems

Yahoo group: mkars80
Date: 2012-09-16 20:40:12 UTC
From: Mark
Topic: 2624 Message: 2631

Thank you for the information Steve,

My mistake I didn't look at the schematic first -- you have planned better than some other kits I have made :-)

Electrets are normally pretty reliable, but I one can get a bad part once in a while I'm sure. Hope he can get it fixed soon!

73 and all the best,

Mark.

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Mark,
>
> For the MKARS80 there is no problem with RF break through into the
> microphone amplifier, I'm assuming of course that the microphone lead is
> adequately screened.
>
> Please refer to the diagram; there is already a 1nF decoupling capacitor
> on the microphone input (C15).
>
> Regards,
> Steve G6ALU
>
> On 16/09/2012 18:57, Mark wrote:
> > Hi,
> >
> > Might I offer a couple ideas?
> >
> > I think since you say your set receives very well, then maybe your BFO setting is not too bad.
> >
> > Do I understand you correctly when you say you are injecting audio from an external source, that you are putting the mic up to a radio that is playing some bbc broadcast and then listening on another rig close by?
> >
> > If this is the case, then I would think the microphone is OK. And when on dummy load your sound is good, but on an antenna not. This would point to RF getting into your mic amp and you will need some isolation there.
> >
> > On a dummy load, your SWR is perfect and the dummy radiates RF only a little bit. But on an antenna your SWR can be a bit off and your feedline, and antenna if it is close, can radiate a lot of local RF. This then has a chance to get into your mic amp and cause lots of trouble.

> >
> > You might then need an RF choke inside the rig on the mic line. Sometimes folks also put a cap from base to ground on the mic amp transistor to shunt RF to ground there too.
> >
> > 73 and best of luck,
> >
> > Mark.
> >
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> >
> >
> > --- In mkars80@..., "g4biy" <g4biy@> wrote:
> >> My MKARS80 works well on receive and seems to be putting out a signal but the audio seems very poor quality and there seems to be too much mic gain. Tried fiddling with the mic bias resistor but no improvement. Injecting audio from external source seems better, ie radio 4 - into dummy load. Wonder if electret mic is faulty. Any suggestions?
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> > Version: 2012.0.2221 / Virus Database: 2437/5271 - Release Date: 09/16/12
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>

2632. Re: No power output

Yahoo group: mkars80
Date: 2012-09-16 21:18:44 UTC
From: simonmcgraw@btinternet.com
Topic: 2612 Message: 2632

I finally got 5w output. Correcting a dry joint in the diode ring in the mixer, a broken wire in L1 and replacing an IRF510 which had died gave me 5w back. :)
Simon
--- In mkars80@..., Simon McGraw <simonmcgraw@...> wrote:
>
> Hi Steve
> I have dc 0v on Rx, 7.5v on Tx and 0.1v RF on Tx
> Thanksa lot Simon
>
>
> On 12 Jul 2012, at 20:56, Steve Drury <steve@...> wrote:
>
> > What have you got on the collector of Q20?
> >
> > Steve
> >
> > On 11/07/2012 23:45, simonmcgraw@... wrote:
> > > Hi
> > > I am trying to trace the transmit power through the circuit. Everything is fine up to Q21. At Q21 I have normal DC voltages, 0.2vRF using Steves RF probe at the base and negligible RF at the collector, I have tried 3 different BC547s which has made no difference. I took out T6 and the RF voltage came up to 0.28v at the collector Q21. I have re-wound T6 put it back and there is again negligible output at the collector of Q21.
> > >
> > > DO you have any suggestions where I should go next?
> > >
> > > Thanks a lot
> > >
> > > Simon
> > >
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> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.2178 / Virus Database: 2437/5127 - Release Date: 07/12/12
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>
> [Non-text portions of this message have been removed]
>

2633. Re: [mkars80] Re: No power output

Yahoo group: mkars80
Date: 2012-09-16 21:26:33 UTC
From: Steve Drury
Topic: 2612 Message: 2633

I'm glad it worked for you in the end Simon.... so often its a problem
with the mixer transformers, I could have gone for a module but they are
at least ?5 each!

Steve G6ALU

On 16/09/2012 22:18, simonmcgraw@... wrote:
> I finally got 5w output. Correcting a dry joint in the diode ring in the mixer, a broken wire in L1 and replacing an IRF510 which had died gave me 5w back. :)
> Simon
> --- In mkars80@..., Simon McGraw <simonmcgraw@...> wrote:
>> Hi Steve
>> I have dc 0v on Rx, 7.5v on Tx and 0.1v RF on Tx
>> Thanksa lot Simon
>>
>>
>> On 12 Jul 2012, at 20:56, Steve Drury <steve@...> wrote:
>>
>>> What have you got on the collector of Q20?
>>>
>>> Steve
>>>
>>> On 11/07/2012 23:45, simonmcgraw@... wrote:
>>>> Hi
>>>> I am trying to trace the transmit power through the circuit. Everything is fine up to Q21. At Q21 I have normal DC voltages, 0.2vRF using Steves RF probe at the base and negligible RF at the collector, I have tried 3 different BC547s which has made no difference. I took out T6 and the RF voltage came up to 0.28v at the collector Q21. I have re-wound T6 put it back and there is again negligible output at the collector of Q21.
>>>>
>>>> DO you have any suggestions where I should go next?
>>>>
>>>> Thanks a lot
>>>>
>>>> Simon
>>>>
>>>>
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>>>> Yahoo! Groups Links
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>>>> No virus found in this message.
>>>> Checked by AVG - www.avg.com
>>>> Version: 2012.0.2178 / Virus Database: 2437/5127 - Release Date: 07/12/12
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2221 / Virus Database: 2437/5271 - Release Date: 09/16/12
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>

2634. Another MKARS80 Alive

Yahoo group: mkars80
Date: 2012-09-17 15:24:37 UTC
From: pe1fjn
Topic: 2634 Message: 2634

Yes, my MKARS80 is alive, 1st QSO made !!!

I connected it to a KENWOOD Headset, KHS-21, seems to work very good, 5W without any problem.

Look forward meeting other MKARS80 stations.

73
PE1FJN
Marc

2635. Re: [mkars80] Another MKARS80 Alive

Yahoo group: mkars80
Date: 2012-09-17 19:34:07 UTC
From: Steve Drury
Topic: 2634 Message: 2635

Congratulations Marc.

Steve G6ALU

On 17/09/2012 16:24, pe1fjn wrote:
> Yes, my MKARS80 is alive, 1st QSO made !!!
>
> I connected it to a KENWOOD Headset, KHS-21, seems to work very good, 5W without any problem.
>
> Look forward meeting other MKARS80 stations.
>
> 73
> PE1FJN
> Marc
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2221 / Virus Database: 2437/5271 - Release Date: 09/16/12
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>

2636. Re: Another MKARS80 Alive

Yahoo group: mkars80
Date: 2012-09-20 13:49:15 UTC
From: woodiescbj
Topic: 2634 Message: 2636

Well done Marc, I am usually QRP portable with the MKARS80 on Sunday mornings if you hear me please give me a call.

Vy 73 de Colin DD5CF / G1ZOS

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Congratulations Marc.
>
> Steve G6ALU
>
>
> On 17/09/2012 16:24, pe1fjn wrote:
> > Yes, my MKARS80 is alive, 1st QSO made !!!
> >
> > I connected it to a KENWOOD Headset, KHS-21, seems to work very good, 5W without any problem.
> >
> > Look forward meeting other MKARS80 stations.
> >
> > 73
> > PE1FJN
> > Marc
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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.2221 / Virus Database: 2437/5271 - Release Date: 09/16/12
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>

2637. MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-24 07:18:48 UTC
From: woodiescbj
Topic: 2637 Message: 2637

Hi to all members of the group, I am going to try and start a MKARS80 net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680 MHZ, or 3.780 if QRM, everyone is welcome to join in including non MKARS80 users, my antenna is either a homemade 30m long delta loop 7m high or a homemade W3EDP ant 7m high which may be better for 80m band, I hope to put one up on Friday afternoon.

I look forward to a MKARS80 QSO with you.

Vy 73 de Colin DD5CF in Bonn JO30NQ

2638. Re: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-24 07:52:11 UTC
From: steve@radio-kits.co.uk
Topic: 2638 Message: 2638

Hi Colin, I will listen out for you but not this week as I will be selling MKARS80 at the National Hamfest.

Steve G6ALU
Radio-Kits

----- Reply message -----
From: "woodiescbj" <jobaco@...>
To: <mkars80@...>
Subject: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz
Date: Mon, Sep 24, 2012 08:18

Hi to all members of the group, I am going to try and start a MKARS80 net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680 MHZ, or 3.780 if QRM, everyone is welcome to join in including non MKARS80 users, my antenna is either a homemade 30m long delta loop 7m high or a homemade W3EDP ant 7m high which may be better for 80m band, I hope to put one up on Friday afternoon.

I look forward to a MKARS80 QSO with you.

Vy 73 de Colin DD5CF in Bonn JO30NQ

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2639. Re: MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-24 08:14:00 UTC
From: woodiescbj
Topic: 2637 Message: 2639

Hi Steve, thanks for the info, I hope you sell a lot of kits :o)
73 Colin

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> Hi Colin, I will listen out for you but not this week as I will be selling MKARS80 at the National Hamfest.
>
> Steve G6ALU
> Radio-Kits
>
>
>
> ----- Reply message -----
> From: "woodiescbj" <jobaco@...>
> To: <mkars80@...>
> Subject: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz
> Date: Mon, Sep 24, 2012 08:18
>
>
> Hi to all members of the group, I am going to try and start a MKARS80 net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680 MHZ, or 3.780 if QRM, everyone is welcome to join in including non MKARS80 users, my antenna is either a homemade 30m long delta loop 7m high or a homemade W3EDP ant 7m high which may be better for 80m band, I hope to put one up on Friday afternoon.
>
> I look forward to a MKARS80 QSO with you.
>
> Vy 73 de Colin DD5CF in Bonn JO30NQ
>
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> [Non-text portions of this message have been removed]
>

2640. Re: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-24 08:18:06 UTC
From: John
Topic: 2637 Message: 2640

Hi Steve, hope it all goes well at the Hamfest, I will be manning the
RAOTA stand both days plus setting up on Thursday of course.
73,
John G4GCL

On 24/09/2012 08:52, steve@... wrote:
>
> Hi Colin, I will listen out for you but not this week as I will be
> selling MKARS80 at the National Hamfest.
>
> Steve G6ALU
> Radio-Kits
>
> ----- Reply message -----
> From: "woodiescbj" <jobaco@... <mailto:jobaco%40netcologne.de>>
> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> Subject: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz
> Date: Mon, Sep 24, 2012 08:18
>
> Hi to all members of the group, I am going to try and start a MKARS80
> net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680
> MHZ, or 3.780 if QRM, everyone is welcome to join in including non
> MKARS80 users, my antenna is either a homemade 30m long delta loop 7m
> high or a homemade W3EDP ant 7m high which may be better for 80m band,
> I hope to put one up on Friday afternoon.
>
> I look forward to a MKARS80 QSO with you.
>
> Vy 73 de Colin DD5CF in Bonn JO30NQ
>
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>
> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

2641. Re: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-24 12:43:30 UTC
From: steve@radio-kits.co.uk
Topic: 2638 Message: 2641

Perhaps bump into you...we set up Sat morning before the show....
Steve

----- Reply message -----
From: "John" <john@...>
To: <mkars80@...>
Subject: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz
Date: Mon, Sep 24, 2012 09:18

Hi Steve, hope it all goes well at the Hamfest, I will be manning the
RAOTA stand both days plus setting up on Thursday of course.
73,
John G4GCL

On 24/09/2012 08:52, steve@... wrote:
>
> Hi Colin, I will listen out for you but not this week as I will be
> selling MKARS80 at the National Hamfest.
>
> Steve G6ALU
> Radio-Kits
>
> ----- Reply message -----
> From: "woodiescbj" <jobaco@... <mailto:jobaco%40netcologne.de>>
> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> Subject: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz
> Date: Mon, Sep 24, 2012 08:18
>
> Hi to all members of the group, I am going to try and start a MKARS80
> net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680
> MHZ, or 3.780 if QRM, everyone is welcome to join in including non
> MKARS80 users, my antenna is either a homemade 30m long delta loop 7m
> high or a homemade W3EDP ant 7m high which may be better for 80m band,
> I hope to put one up on Friday afternoon.
>
> I look forward to a MKARS80 QSO with you.
>
> Vy 73 de Colin DD5CF in Bonn JO30NQ
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2642. Re: MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-24 14:22:57 UTC
From: johncronhelm@nl.rogers.com
Topic: 2637 Message: 2642

I would love to check into your net,but we are presently 2 1/2 hrs behind utc and later on 3 1/2hrs. behind utc. the middle of the night for me. Sometime I would be interested in making contacts with Mkars80 at 00.00 utc 73, John vo1jcc.
--- In mkars80@..., John <john@...> wrote:
>
> Hi Steve, hope it all goes well at the Hamfest, I will be manning the
> RAOTA stand both days plus setting up on Thursday of course.
> 73,
> John G4GCL
>
> On 24/09/2012 08:52, steve@... wrote:
> >
> > Hi Colin, I will listen out for you but not this week as I will be
> > selling MKARS80 at the National Hamfest.
> >
> > Steve G6ALU
> > Radio-Kits
> >
> > ----- Reply message -----
> > From: "woodiescbj" <jobaco@... <mailto:jobaco%40netcologne.de>>
> > To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> > Subject: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz
> > Date: Mon, Sep 24, 2012 08:18
> >
> > Hi to all members of the group, I am going to try and start a MKARS80
> > net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680
> > MHZ, or 3.780 if QRM, everyone is welcome to join in including non
> > MKARS80 users, my antenna is either a homemade 30m long delta loop 7m
> > high or a homemade W3EDP ant 7m high which may be better for 80m band,
> > I hope to put one up on Friday afternoon.
> >
> > I look forward to a MKARS80 QSO with you.
> >
> > Vy 73 de Colin DD5CF in Bonn JO30NQ
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
>
> [Non-text portions of this message have been removed]

>

2643. Re: MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-24 19:46:12 UTC
From: pe1fjn
Topic: 2637 Message: 2643

Hello Colin,

I will give it a try HI, but my antenna not so good, and I need good weather for an experimental antenna as well.....

TNX for initiative, and hope to meet you comign Saturday.

73
PE1FJN

--- In mkars80@yahoogroups.co.uk, "woodiescbj" <jobaco@...> wrote:
>
> Hi to all members of the group, I am going to try and start a MKARS80 net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680 MHZ, or 3.780 if QRM, everyone is welcome to join in including non MKARS80 users, my antenna is either a homemade 30m long delta loop 7m high or a homemade W3EDP ant 7m high which may be better for 80m band, I hope to put one up on Friday afternoon.
>
> I look forward to a MKARS80 QSO with you.
>
> Vy 73 de Colin DD5CF in Bonn JO30NQ
>

2644. Re: MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-25 06:09:06 UTC
From: woodiescbj
Topic: 2637 Message: 2644

Thanks for the info John, I have just one contact with an OM on Prince Edward Island with the MKARS80 and a G5RV to date and look forward to the next one, 73 Colin

--- In mkars80@..., "johncronhelm@..." <johncronhelm@...> wrote:
>
>
> I would love to check into your net,but we are presently 2 1/2 hrs behind utc and later on 3 1/2hrs. behind utc. the middle of the night for me. Sometime I would be interested in making contacts with Mkars80 at 00.00 utc 73, John vo1jcc.
> --- In mkars80@....uk, John <john@> wrote:
> >
> > Hi Steve, hope it all goes well at the Hamfest, I will be manning the
> > RAOTA stand both days plus setting up on Thursday of course.
> > 73,
> > John G4GCL
> >
> > On 24/09/2012 08:52, steve@ wrote:
> > >
> > > Hi Colin, I will listen out for you but not this week as I will be
> > > selling MKARS80 at the National Hamfest.
> > >
> > > Steve G6ALU
> > > Radio-Kits
> > >
> > > ----- Reply message -----
> > > From: "woodiescbj" <jobaco@ <mailto:jobaco%40netcologne.de>>
> > > To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> > > Subject: [mkars80] MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz
> > > Date: Mon, Sep 24, 2012 08:18
> > >
> > > Hi to all members of the group, I am going to try and start a MKARS80
> > > net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680
> > > MHZ, or 3.780 if QRM, everyone is welcome to join in including non
> > > MKARS80 users, my antenna is either a homemade 30m long delta loop 7m
> > > high or a homemade W3EDP ant 7m high which may be better for 80m band,
> > > I hope to put one up on Friday afternoon.
> > >
> > > I look forward to a MKARS80 QSO with you.
> > >
> > > Vy 73 de Colin DD5CF in Bonn JO30NQ
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >

> > > [Non-text portions of this message have been removed]
> > >
> > >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

2645. Re: MKARS80 net Saturdays 05:00-07:00 UTC on 3.680 MHz

Yahoo group: mkars80
Date: 2012-09-25 06:13:55 UTC
From: woodiescbj
Topic: 2637 Message: 2645

Thanks for your reply Marc, very good pictures on your QRZ.COM site, I hope to put up a homemade W3EDP ant which will work better on 80m than my 30m long delta loop.

http://g0kya.blogspot.de/2009/02/w3edp-85-ft-end-fed.html

Vy 73 de Colin

--- In mkars80@..., "pe1fjn" <pe1fjn@...> wrote:
>
> Hello Colin,
>
> I will give it a try HI, but my antenna not so good, and I need good weather for an experimental antenna as well.....
>
> TNX for initiative, and hope to meet you comign Saturday.
>
> 73
> PE1FJN
>
>
> --- In mkars80@..., "woodiescbj" <jobaco@> wrote:
> >
> > Hi to all members of the group, I am going to try and start a MKARS80 net on Saturdays starting on 29/09/2012 from 05:00-07:00 UTC on 3.680 MHZ, or 3.780 if QRM, everyone is welcome to join in including non MKARS80 users, my antenna is either a homemade 30m long delta loop 7m high or a homemade W3EDP ant 7m high which may be better for 80m band, I hope to put one up on Friday afternoon.
> >
> > I look forward to a MKARS80 QSO with you.
> >
> > Vy 73 de Colin DD5CF in Bonn JO30NQ
> >
>

2646. Listening in 3.680

Yahoo group: mkars80
Date: 2012-09-29 05:39:08 UTC
From: pe1fjn
Topic: 2646 Message: 2646

I'm listening on 3680MHz , so many station but do not spot MKARS80....

Will continue to listen for another hour.

73
PE1FJN
Marc

2647. Re: Listening in 3.680

Yahoo group: mkars80
Date: 2012-09-29 07:06:15 UTC
From: Pascal
Topic: 2646 Message: 2647

Too many F or UK skeds around this frequency..;and short skip didn't help...nothing heard
Pascal F6EHP

--- In mkars80@..., "pe1fjn" <pe1fjn@...> wrote:
>
> I'm listening on 3680MHz , so many station but do not spot MKARS80....
>
> Will continue to listen for another hour.
>
> 73
> PE1FJN
> Marc
>

2648. Re: Listening in 3.680

Yahoo group: mkars80
Date: 2012-09-29 07:41:59 UTC
From: woodiescbj
Topic: 2646 Message: 2648

Thanks for listen Marc, there was a lot going on, I will try again next week on 3.780 it was quieter there.
73 Colin

--- In mkars80@....uk, "Pascal" <pascal@...> wrote:
>
> Too many F or UK skeds around this frequency..;and short skip didn't help...nothing heard
Pascal F6EHP
>
> --- In mkars80@..., "pe1fjn" <pe1fjn@> wrote:
> >
> > I'm listening on 3680MHz , so many station but do not spot MKARS80....
> >
> > Will continue to listen for another hour.
> >
> > 73
> > PE1FJN
> > Marc
> >
>

2649. Re: Listening in 3.680

Yahoo group: mkars80
Date: 2012-09-29 07:43:25 UTC
From: woodiescbj
Topic: 2646 Message: 2649

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Too many F or UK skeds around this frequency..;and short skip didn't help...nothing heard
Pascal F6EHP
>
> --- In mkars80@..., "pe1fjn" <pe1fjn@> wrote:
> >
> > I'm listening on 3680MHz , so many station but do not spot MKARS80....
> >
> > Will continue to listen for another hour.
> >
> > 73
> > PE1FJN
> > Marc
> >
>
Thanks for listen Pascal, there was a lot going on, I will try again next week on 3.780 it was quieter there.
73 Colin

2650. MKARS80 net every Saturday 05:00-07:00 UTC on 3.780 MHz

Yahoo group: mkars80
Date: 2012-09-29 07:51:48 UTC
From: woodiescbj
Topic: 2650 Message: 2650

Hello to all members of the group, this didn't get off to a very good start (no contacts) the band was very noisy, I will be trying again next Saturday 06/109/2012 from 05:00-07:00 UTC on 3.780 MHZ (which was clearer), or 3.680 +- QRM, everyone is welcome to join in including non MKARS80 users and SWL's, please QSL via EQSL.COM.

my antenna is either a homemade 30m long delta loop 7m high or a homemade W3EDP ant 7m high, which may be better for 80m band, I hope to put one up on Friday afternoon.

I look forward to a MKARS80 QSO with you.

Vy 73 de Colin DD5CF in Bonn JO30NQ

2651. digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 07:14:42 UTC
From: f5mpw
Topic: 2651 Message: 2651

I am looking for photos about realisations of digital swr meter from our friend steve (radio kits)
73 philippe F5MPW

2652. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 07:20:58 UTC
From: John
Topic: 2651 Message: 2652

Hello Philippe

What photo's are you looking for in particular? There are some very good ones in the manual which you can download or I can forward a copy.

73,
John.

On 03/10/2012 08:14, f5mpw wrote:
>
> I am looking for photos about realisations of digital swr meter from
> our friend steve (radio kits)
> 73 philippe F5MPW
>
>

[Non-text portions of this message have been removed]

2653. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 07:29:52 UTC
From: F5mpw
Topic: 2651 Message: 2653

Hello John.

Yes, I saw the nice manual, I wondered if the enclosured was not larger and longer for the pcb, I understood it was the same as mkars 80...
Your are near your pc at this time???

73 ph

----- Original Message -----
From: John
To: mkars80@...
Sent: Wednesday, October 03, 2012 9:20 AM
Subject: Re: [mkars80] digital swr meter kit

Hello Philippe

What photo's are you looking for in particular? There are some very good
ones in the manual which you can download or I can forward a copy.

73,
John.

On 03/10/2012 08:14, f5mpw wrote:
>
> I am looking for photos about realisations of digital swr meter from
> our friend steve (radio kits)
> 73 philippe F5MPW
>
>

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[Non-text portions of this message have been removed]

2654. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 07:40:35 UTC
From: John
Topic: 2651 Message: 2654

Hi Philippe

Just making breakfast!

I saw the enclosure at Hamfest last week but I can't remember it too
well. I've built mine into 2 boxes, a plastic one for the main part and
an aluminium die-cast for the measuring 'head'.

73, John.

On 03/10/2012 08:29, F5mpw wrote:
>
> Hello John.
>
> Yes, I saw the nice manual, I wondered if the enclosured was not
> larger and longer for the pcb, I understood it was the same as mkars 80...
> Your are near your pc at this time???
>
> 73 ph
>
> ----- Original Message -----
> From: John
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Wednesday, October 03, 2012 9:20 AM
> Subject: Re: [mkars80] digital swr meter kit
>
> Hello Philippe
>
> What photo's are you looking for in particular? There are some very good
> ones in the manual which you can download or I can forward a copy.
>
> 73,
> John.
>
> On 03/10/2012 08:14, f5mpw wrote:
> >
> > I am looking for photos about realisations of digital swr meter from
> > our friend steve (radio kits)
> > 73 philippe F5MPW
> >
> >
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>

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2655. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 07:50:01 UTC
From: F5mpw
Topic: 2651 Message: 2655

Good breakfast John!

I ordered with the enclosure option. I will built this kit in next november or december...
Before we have a qsy in Maroco, if you want to follow us with internet, it's possible, I have a special adress, every day I will send photos, if you are "interested" tel me.
For me about 10 o clock...

73 ph

----- Original Message -----
From: John
To: mkars80@...
Sent: Wednesday, October 03, 2012 9:40 AM
Subject: Re: [mkars80] digital swr meter kit

Hi Philippe

Just making breakfast!

I saw the enclosure at Hamfest last week but I can't remember it too
well. I've built mine into 2 boxes, a plastic one for the main part and
an aluminium die-cast for the measuring 'head'.

73, John.

On 03/10/2012 08:29, F5mpw wrote:
>
> Hello John.
>
> Yes, I saw the nice manual, I wondered if the enclosured was not
> larger and longer for the pcb, I understood it was the same as mkars 80...
> Your are near your pc at this time???
>
> 73 ph
>
> ----- Original Message -----
> From: John
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Wednesday, October 03, 2012 9:20 AM
> Subject: Re: [mkars80] digital swr meter kit
>
> Hello Philippe
>
> What photo's are you looking for in particular? There are some very good
> ones in the manual which you can download or I can forward a copy.
>
> 73,

> John.
>
> On 03/10/2012 08:14, f5mpw wrote:
> >
> > I am looking for photos about realisations of digital swr meter from
> > our friend steve (radio kits)
> > 73 philippe F5MPW
> >
> >
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>

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2656. RE: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 07:55:45 UTC
From: Simon McGraw
Topic: 2651 Message: 2656

Hi

Having built one, I can say yes the digital swr meter fits fine into the same size case as the MKARS80.

73

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf Of John
Sent: 03 October 2012 08:41
To: mkars80@...
Subject: Re: [mkars80] digital swr meter kit

Hi Philippe

Just making breakfast!

I saw the enclosure at Hamfest last week but I can't remember it too well. I've built mine into 2 boxes, a plastic one for the main part and an aluminium die-cast for the measuring 'head'.

73, John.

On 03/10/2012 08:29, F5mpw wrote:
>
> Hello John.
>
> Yes, I saw the nice manual, I wondered if the enclosured was not
> larger and longer for the pcb, I understood it was the same as mkars 80...
> Your are near your pc at this time???
>
> 73 ph
>
> ----- Original Message -----
> From: John
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
<mailto:mkars80%40yahoogroups.co.uk>
> Sent: Wednesday, October 03, 2012 9:20 AM
> Subject: Re: [mkars80] digital swr meter kit
>
> Hello Philippe
>
> What photo's are you looking for in particular? There are some very good
> ones in the manual which you can download or I can forward a copy.
>

> 73,
> John.
>
> On 03/10/2012 08:14, f5mpw wrote:
> >
> > I am looking for photos about realisations of digital swr meter from
> > our friend steve (radio kits)
> > 73 philippe F5MPW
> >
> >
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>

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2657. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 08:13:12 UTC
From: John
Topic: 2651 Message: 2657

Sorry about the delay Philippe!

The problem I found when I tried to put it into a case was that the
buttons were in the 'wrong' place for everything I tried.
Eventually I put it in a small box that I bought at a rally and arranged
it so that the buttons were on the back and the display was sitting
above the main PCB.
I did that by making up a small right angled plug/socket arrangement for
the display, the only problem is that R31 is difficult to reach now. The
box has a place for a 9v battery too so that is useful for QRP.

Good luck with the kit, it's very good as you would expect from Steve.
Have a great trip.

73, John.

On 03/10/2012 08:50, F5mpw wrote:
>
> Good breakfast John!
>
> I ordered with the enclosure option. I will built this kit in next
> november or december... Before we have a qsy in Maroco, if you want to
> follow us with internet, it's possible, I have a special adress, every
> day I will send photos, if you are "interested" tel me.
> For me about 10 o clock...
>
> 73 ph
>
> ----- Original Message -----
> From: John
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Sent: Wednesday, October 03, 2012 9:40 AM
> Subject: Re: [mkars80] digital swr meter kit
>
> Hi Philippe
>
> Just making breakfast!
>
> I saw the enclosure at Hamfest last week but I can't remember it too
> well. I've built mine into 2 boxes, a plastic one for the main part and
> an aluminium die-cast for the measuring 'head'.
>
> 73, John.
>
> On 03/10/2012 08:29, F5mpw wrote:
> >

> > Hello John.
> >
> > Yes, I saw the nice manual, I wondered if the enclosured was not
> > larger and longer for the pcb, I understood it was the same as mkars
> 80...
> > Your are near your pc at this time???
> >
> > 73 ph
> >
> > ----- Original Message -----
> > From: John
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> <mailto:mkars80%40yahoogroups.co.uk>
> > Sent: Wednesday, October 03, 2012 9:20 AM
> > Subject: Re: [mkars80] digital swr meter kit
> >
> > Hello Philippe
> >
> > What photo's are you looking for in particular? There are some very good
> > ones in the manual which you can download or I can forward a copy.
> >
> > 73,
> > John.
> >
> > On 03/10/2012 08:14, f5mpw wrote:
> > >
> > > I am looking for photos about realisations of digital swr meter from
> > > our friend steve (radio kits)
> > > 73 philippe F5MPW
> > >
> > >
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> > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>

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2658. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 08:21:28 UTC
From: F5mpw
Topic: 2651 Message: 2658

Thank your for answers... now I am waiting... no problem with Steve!

73 philippe

----- Original Message -----
From: Simon McGraw
To: mkars80@...
Sent: Wednesday, October 03, 2012 9:55 AM
Subject: RE: [mkars80] digital swr meter kit

Hi

Having built one, I can say yes the digital swr meter fits fine into the
same size case as the MKARS80.

73

Simon

From: mkars80@... [mailto:mkars80@...] On Behalf
Of John
Sent: 03 October 2012 08:41
To: mkars80@...
Subject: Re: [mkars80] digital swr meter kit

Hi Philippe

Just making breakfast!

I saw the enclosure at Hamfest last week but I can't remember it too
well. I've built mine into 2 boxes, a plastic one for the main part and
an aluminium die-cast for the measuring 'head'.

73, John.

On 03/10/2012 08:29, F5mpw wrote:
>
> Hello John.
>
> Yes, I saw the nice manual, I wondered if the enclosured was not
> larger and longer for the pcb, I understood it was the same as mkars 80...
> Your are near your pc at this time???
>
> 73 ph
>
> ----- Original Message -----
> From: John
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>

<mailto:mkars80%40yahoogroups.co.uk>
> Sent: Wednesday, October 03, 2012 9:20 AM
> Subject: Re: [mkars80] digital swr meter kit
>
> Hello Philippe
>
> What photo's are you looking for in particular? There are some very good
> ones in the manual which you can download or I can forward a copy.
>
> 73,
> John.
>
> On 03/10/2012 08:14, f5mpw wrote:
> >
> > I am looking for photos about realisations of digital swr meter from
> > our friend steve (radio kits)
> > 73 philippe F5MPW
> >
> >
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>

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[Non-text portions of this message have been removed]

2659. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-03 10:22:46 UTC
From: John
Topic: 2651 Message: 2659

Hi All

I ordered mine with the enclosure

All built into the one box.

Using the templates was easy and it was a perfect fit

I calibrated my meter against a Bird Power meter.

It is quite accurate compares favourably with my LP100A

John

[Non-text portions of this message have been removed]

2660. linearity

Yahoo group: mkars80
Date: 2012-10-04 20:35:49 UTC
From: Pascal
Topic: 2660 Message: 2660

As a few stations told me that I have some distorsion , I put a two tone generator (dgen fr DL6AK) at the mic input (with a potentiometer to adjust the level) - before, I have adjusted carefully the bias current and the mixer balance. Up to 2,5 W , the scope shows a good picture, but over it looks saturated. Has anyone done the same test ? Any idea to increase the linearity ? Will be on 3.780 on Saturday morning, but not before 7 local hour...

2661. Re: MKARS80 net every Saturday 05:00-07:00 UTC on 3.780 MHz

Yahoo group: mkars80
Date: 2012-10-06 05:49:10 UTC
From: pascalv29
Topic: 2650 Message: 2661

Thanks for the qso this morning , Colin, signal was very low, but frequency clear....73 fr Pascal F6EHP

--- In mkars80@..., "woodiescbj" <jobaco@...> wrote:
>
> Hello to all members of the group, this didn't get off to a very good start (no contacts) the band was very noisy, I will be trying again next Saturday 06/109/2012 from 05:00-07:00 UTC on 3.780 MHZ (which was clearer), or 3.680 +- QRM, everyone is welcome to join in including non MKARS80 users and SWL's, please QSL via EQSL.COM.
>
> my antenna is either a homemade 30m long delta loop 7m high or a homemade W3EDP ant 7m high, which may be better for 80m band, I hope to put one up on Friday afternoon.
>
> I look forward to a MKARS80 QSO with you.
>
> Vy 73 de Colin DD5CF in Bonn JO30NQ
>

2662. Re: MKARS80 net every Saturday 05:00-07:00 UTC on 3.780 MHz

Yahoo group: mkars80
Date: 2012-10-06 06:00:17 UTC
From: woodiescbj
Topic: 2650 Message: 2662

Thank you too Pascal, I like your website lots of antenna ideas, Vy 73 de Colin DD5CF / G1ZOS

--- In mkars80@..., "pascalv29" <pascal@...> wrote:
>
> Thanks for the qso this morning , Colin, signal was very low, but frequency clear....73 fr Pascal F6EHP
>
> --- In mkars80@yahoogroups.co.uk, "woodiescbj" <jobaco@> wrote:
> >
> > Hello to all members of the group, this didn't get off to a very good start (no contacts) the band was very noisy, I will be trying again next Saturday 06/109/2012 from 05:00-07:00 UTC on 3.780 MHZ (which was clearer), or 3.680 +- QRM, everyone is welcome to join in including non MKARS80 users and SWL's, please QSL via EQSL.COM.
> >
> > my antenna is either a homemade 30m long delta loop 7m high or a homemade W3EDP ant 7m high, which may be better for 80m band, I hope to put one up on Friday afternoon.
> >
> > I look forward to a MKARS80 QSO with you.
> >
> > Vy 73 de Colin DD5CF in Bonn JO30NQ
> >
>

2663. Re: linearity

Yahoo group: mkars80
Date: 2012-10-06 06:13:17 UTC
From: Mark
Topic: 2660 Message: 2663

Hi Pascal,

Just curious for some details as some of the following can limit your power output and may limit you to 2.5W max linear output from the amp...

What supply voltage are you using? The power output of the IRF510 drops off quite a bit as the supply voltage goes down.

Is the 2.5W into a dummy load or an antenna? I am asking because as the impedance at the antenna terminal goes above 50ohms, then the power output can also drop.

I have done two-tone tests also on my single IRF510 amplifiers, and they usually go closer to 5W or 6W (at 13.4V into a 50ohm dummy load) before flattopping.

If you are using an amplified microphone, maybe that could introduce distortion if the mic amp gets overdriven?

I hope this can help a little bit, but maybe the designer will have some better ideas.

Congrats on your QSO with your MKARS!

73,

Mark/n7eku

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> As a few stations told me that I have some distorsion , I put a two tone generator (dgen fr DL6AK) at the mic input (with a potentiometer to adjust the level) - before, I have adjusted carefully the bias current and the mixer balance. Up to 2,5 W , the scope shows a good picture, but over it looks saturated. Has anyone done the same test ? Any idea to increase the linearity ? Will be on 3.780 on Saturday morning, but not before 7 local hour...
>

2664. Re: [mkars80] Re: linearity

Yahoo group: mkars80
Date: 2012-10-06 07:35:08 UTC
From: steve@radio-kits.co.uk
Topic: 2664 Message: 2664

Hello Pascal,
The IRF510 isn't the best device for linearity as it is intended for switching applications but its normally quite acceptable for QRP use.
It's worth using a scope to look at the collector waveforms through the TX stage to make sure there isn't one limiting early, I've had several causes for this; wrong turns ratios on transformers, broken track to emitter decoupling capacitors etc.
Regards,
Steve G6ALU

----- Reply message -----
From: "Mark" <mark7311@...>
To: <mkars80@...>
Subject: [mkars80] Re: linearity
Date: Sat, Oct 6, 2012 07:13

Hi Pascal,

Just curious for some details as some of the following can limit your power output and may limit you to 2.5W max linear output from the amp...

What supply voltage are you using? The power output of the IRF510 drops off quite a bit as the supply voltage goes down.

Is the 2.5W into a dummy load or an antenna? I am asking because as the impedance at the antenna terminal goes above 50ohms, then the power output can also drop.

I have done two-tone tests also on my single IRF510 amplifiers, and they usually go closer to 5W or 6W (at 13.4V into a 50ohm dummy load) before flattopping.

If you are using an amplified microphone, maybe that could introduce distortion if the mic amp gets overdriven?

I hope this can help a little bit, but maybe the designer will have some better ideas.

Congrats on your QSO with your MKARS!

73,

Mark/n7eku

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> As a few stations told me that I have some distorsion , I put a two tone generator (dgen fr DL6AK) at the mic input (with a potentiometer to adjust the level) - before, I have adjusted carefully the bias current and the mixer balance. Up to 2,5 W , the scope shows a good picture, but over it looks saturated. Has anyone done the same test ? Any idea to increase the linearity ? Will be on 3.780 on Saturday morning, but not before 7 local hour...

>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2665. Re: linearity

Yahoo group: mkars80
Date: 2012-10-06 07:49:45 UTC
From: pascalv29
Topic: 2660 Message: 2665

Hi Mark,
Thanks for your answer
Power supply is 13.5v, tests made on a 50 ohms dummy load,
New tests done shows a 200 hz modulation only on a two tones signal, not on on a single tone, like if a carrier frequency was still there, but I have made carefully the mixer adjustment, so...I don't know where is the fault.
But the main distorsion was coming from the mic. A 1MF added on it has almost solved the bad audio reported by the hams, so it can work as it is until I have a new idea to study.

--- In mkars80@yahoogroups.co.uk, "Mark" <mark7311@...> wrote:
>
> Hi Pascal,
>
> Just curious for some details as some of the following can limit your power output and may limit you to 2.5W max linear output from the amp...
>
> What supply voltage are you using? The power output of the IRF510 drops off quite a bit as the supply voltage goes down.
>
> Is the 2.5W into a dummy load or an antenna? I am asking because as the impedance at the antenna terminal goes above 50ohms, then the power output can also drop.
>
> I have done two-tone tests also on my single IRF510 amplifiers, and they usually go closer to 5W or 6W (at 13.4V into a 50ohm dummy load) before flattopping.
>
> If you are using an amplified microphone, maybe that could introduce distortion if the mic amp gets overdriven?
>
> I hope this can help a little bit, but maybe the designer will have some better ideas.
>
> Congrats on your QSO with your MKARS!
>
> 73,
>
> Mark/n7eku
>
> --- In mkars80@..., "Pascal" <pascal@> wrote:
> >
> > As a few stations told me that I have some distorsion , I put a two tone generator (dgen fr DL6AK) at the mic input (with a potentiometer to adjust the level) - before, I have adjusted carefully the bias current and the mixer balance. Up to 2,5 W , the scope shows a good picture, but over it looks saturated. Has anyone done the same test ? Any idea to increase the linearity ? Will be on 3.780 on Saturday morning, but not before 7 local hour...
> >

>

2666. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-06 10:01:15 UTC
From: F5mpw
Topic: 2651 Message: 2666

Ok John, if you have a camera, a photo will be interessing...

At this moment, in Brittany it is raining, temperature 16 degres, no sun... pression 1015 hpa...
What sorte of antenna have you at your home?

Quand j'aurai installé ma cubical quad, nous pourrons faire un essai.
Le plus compliqué sera de se comprendre en anglais ou en français ou les deux...

A bientôt John!

73 ph

----- Original Message -----
From: John
To: mkars80@...
Sent: Wednesday, October 03, 2012 12:22 PM
Subject: Re: [mkars80] digital swr meter kit

Hi All

I ordered mine with the enclosure

All built into the one box.

Using the templates was easy and it was a perfect fit

I calibrated my meter against a Bird Power meter.

It is quite accurate compares favourably with my LP100A

John

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2667. Re: linearity

Yahoo group: mkars80
Date: 2012-10-06 14:18:45 UTC
From: Mark
Topic: 2660 Message: 2667

Hi Pascal,

I must have been sleepy last night as I forgot one important thing about the two tone test. That is that one usually only realizes about 1/2 of the typical power output before flattopping. When I was thinking about mine, I forgot that part and was giving the figures after the test when I switched to one tone to check the real output. If you switch off one of the tones, then you should get 5W to 6W out. I don't think there is anything wrong with your amp :-)

The 200Hz is probably the difference between the two tones. On a single tone, you should indeed no longer see it and will only be able to see a transmit frequency waveform.

You have an electret mic, or a dynamic or transistor amplified dynamic? Where did you place the capacitor? Anyway, some RF getting into the mic line can cause trouble and extra filtering like that can for sure help.

Have a great weekend :-)

73,

Mark.

--- In mkars80@..., "pascalv29" <pascal@...> wrote:
>
> Hi Mark,
> Thanks for your answer
> Power supply is 13.5v, tests made on a 50 ohms dummy load,
> New tests done shows a 200 hz modulation only on a two tones signal, not on on a single tone, like if a carrier frequency was still there, but I have made carefully the mixer adjustment, so...I don't know where is the fault.
> But the main distorsion was coming from the mic. A 1MF added on it has almost solved the bad audio reported by the hams, so it can work as it is until I have a new idea to study.
>
> --- In mkars80@..., "Mark" <mark7311@> wrote:
> >
> > Hi Pascal,
> >
> > Just curious for some details as some of the following can limit your power output and may limit you to 2.5W max linear output from the amp...
> >
> > What supply voltage are you using? The power output of the IRF510 drops off quite a bit as the supply voltage goes down.
> >
> > Is the 2.5W into a dummy load or an antenna? I am asking because as the impedance at the antenna terminal goes above 50ohms, then the power output can also drop.
> >
> > I have done two-tone tests also on my single IRF510 amplifiers, and they usually go

closer to 5W or 6W (at 13.4V into a 50ohm dummy load) before flattopping.
> >
> > If you are using an amplified microphone, maybe that could introduce distortion if the mic amp gets overdriven?
> >
> > I hope this can help a little bit, but maybe the designer will have some better ideas.
> >
> > Congrats on your QSO with your MKARS!
> >
> > 73,
> >
> > Mark/n7eku
> >
> > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > >
> > > As a few stations told me that I have some distorsion , I put a two tone generator (dgen fr DL6AK) at the mic input (with a potentiometer to adjust the level) - before, I have adjusted carefully the bias current and the mixer balance. Up to 2,5 W , the scope shows a good picture, but over it looks saturated. Has anyone done the same test ? Any idea to increase the linearity ? Will be on 3.780 on Saturday morning, but not before 7 local hour...
> > >
> >
>

2668. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-06 15:43:36 UTC
From: John
Topic: 2651 Message: 2668

Hi Phillip

I built my SWR Power meter in the case that came with the kit.. It is not the same size as the MKARS 80 case.

I have uploaded 3 quite poor photos to the site

They are not there yet as waiting for the moderator.

Look for the under G3YOU MKARS 80

If you follow the drilling instructions given with the downloadable templates you should be ok

Hope this helps

Good luck

John

[Non-text portions of this message have been removed]

2669. Re: linearity

Yahoo group: mkars80
Date: 2012-10-06 19:53:57 UTC
From: Pascal
Topic: 2660 Message: 2669

Hello Mark,
In this case , my TX should be good. I will check next week if I get this 200 hz modulation on a few other TX (only seen with the two tones in a ratio around 1 to 2, tests made with different values). The mic is a usual low cost mic for computer, on which I have added a LF compressor, with level adjusted to the same as without it. I agree the distorsion came from the mic, and the capacitor has done a great job. I have now to test more on the air with local stations and with other mic.

--- In mkars80@yahoogroups.co.uk, "Mark" <mark7311@...> wrote:
>
> Hi Pascal,
>
> I must have been sleepy last night as I forgot one important thing about the two tone test. That is that one usually only realizes about 1/2 of the typical power output before flattopping. When I was thinking about mine, I forgot that part and was giving the figures after the test when I switched to one tone to check the real output. If you switch off one of the tones, then you should get 5W to 6W out. I don't think there is anything wrong with your amp :-)
>
> The 200Hz is probably the difference between the two tones. On a single tone, you should indeed no longer see it and will only be able to see a transmit frequency waveform.
>
> You have an electret mic, or a dynamic or transistor amplified dynamic? Where did you place the capacitor? Anyway, some RF getting into the mic line can cause trouble and extra filtering like that can for sure help.
>
> Have a great weekend :-)
>
> 73,
>
> Mark.
>
>
>
> --- In mkars80@..., "pascalv29" <pascal@> wrote:
> >
> > Hi Mark,
> > Thanks for your answer
> > Power supply is 13.5v, tests made on a 50 ohms dummy load,
> > New tests done shows a 200 hz modulation only on a two tones signal, not on on a single tone, like if a carrier frequency was still there, but I have made carefully the mixer adjustment, so...I don't know where is the fault.
> > But the main distorsion was coming from the mic. A 1MF added on it has almost solved the bad audio reported by the hams, so it can work as it is until I have a new idea to study.

> >
> > --- In mkars80@..., "Mark" <mark7311@> wrote:
> > >
> > > Hi Pascal,
> > >
> > > Just curious for some details as some of the following can limit your power output and may limit you to 2.5W max linear output from the amp...
> > >
> > > What supply voltage are you using? The power output of the IRF510 drops off quite a bit as the supply voltage goes down.
> > >
> > > Is the 2.5W into a dummy load or an antenna? I am asking because as the impedance at the antenna terminal goes above 50ohms, then the power output can also drop.
> > >
> > > I have done two-tone tests also on my single IRF510 amplifiers, and they usually go closer to 5W or 6W (at 13.4V into a 50ohm dummy load) before flattopping.
> > >
> > > If you are using an amplified microphone, maybe that could introduce distortion if the mic amp gets overdriven?
> > >
> > > I hope this can help a little bit, but maybe the designer will have some better ideas.
> > >
> > > Congrats on your QSO with your MKARS!
> > >
> > > 73,
> > >
> > > Mark/n7eku
> > >
> > > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > > >
> > > > As a few stations told me that I have some distorsion , I put a two tone generator (dgen fr DL6AK) at the mic input (with a potentiometer to adjust the level) - before, I have adjusted carefully the bias current and the mixer balance. Up to 2,5 W , the scope shows a good picture, but over it looks saturated. Has anyone done the same test ? Any idea to increase the linearity ? Will be on 3.780 on Saturday morning, but not before 7 local hour...
> > > >
> > >
> > >
> >
>

2670. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-08 06:05:53 UTC
From: F5mpw
Topic: 2651 Message: 2670

Bonjour John.

Merci pour toutes les explications. J'ai bien compris.
J'ai vu les photos de G3YOU.
j'ai aussi ma réponse: la boîte ressemble à la boîte du MKARS80 mais n'a pas la même taille! C est OK

Ici, la pluie, le ciel est gris et la température est de 15 degrés.
J'ai choisi des mots simples, je pense que vous n'aurez pas de difficultés pour me comprendre.
Passez une bonne journée!
73 philippe

----- Original Message -----
From: John
To: mkars80@...
Sent: Saturday, October 06, 2012 5:43 PM
Subject: Re: [mkars80] digital swr meter kit

Hi Phillip

I built my SWR Power meter in the case that came with the kit.. It is not the same size as the MKARS 80 case.

I have uploaded 3 quite poor photos to the site

They are not there yet as waiting for the moderator.

Look for the under G3YOU MKARS 80

If you follow the drilling instructions given with the downloadable templates you should be ok

Hope this helps

Good luck

John

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2671. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2012-10-08 09:12:50 UTC
From: John
Topic: 2651 Message: 2671

Bonjour Phillip

Heureux que cela a aide

Bonne chance avec a construction du computer, il est tres bonne

Peut -etre vous faire travailler un jour sur 80 metres

73 John

[Non-text portions of this message have been removed]

2672. Display frozen

Yahoo group: mkars80
Date: 2012-10-20 06:59:05 UTC
From: dd5cf_colin
Topic: 2672 Message: 2672

Hi to all members,
I have been running the MKARS80 for about two years with no problems, this morning the display has frozen a couple of times (for two minutes now), turning the rig off and on the display stayed blank at first but came on again after repeated switching I can tune up and down, RX and TX OK just the problem with the display, I did notice that I had about 6 random characters show up in the Huff_Puff part of the display but they went away when I restarted the rig.

Any ideas would be appreciated.

Vy 73 de Colin DD5CF / G1ZOS

2673. Re: Display frozen

Yahoo group: mkars80
Date: 2012-10-20 22:24:35 UTC
From: johncronhelm@nl.rogers.com
Topic: 2672 Message: 2673

Hi Colin,
I had a slightly different problem with my display. It went wild and frequency went all over the place. I finally traced the problem to Q13,one of it's leads had a poor solder joint. It might be worth checking out this transistor. Hope you can fix it soon.
73, John VO1JCC.
--- In mkars80@yahoogroups.co.uk, "dd5cf_colin" <jobaco@...> wrote:
>
> Hi to all members,
> I have been running the MKARS80 for about two years with no problems, this morning the display has frozen a couple of times (for two minutes now), turning the rig off and on the display stayed blank at first but came on again after repeated switching I can tune up and down, RX and TX OK just the problem with the display, I did notice that I had about 6 random characters show up in the Huff_Puff part of the display but they went away when I restarted the rig.
>
> Any ideas would be appreciated.
>
> Vy 73 de Colin DD5CF / G1ZOS
>

2674. Re: [mkars80] Re: Display frozen

Yahoo group: mkars80
Date: 2012-10-21 07:53:05 UTC
From: steve@radio-kits.co.uk
Topic: 2674 Message: 2674

That could be a good candidate, also worth checking all the display connections are making through the pin and socket arangement.
Steve

----- Reply message -----
From: "johncronhelm@..." <johncronhelm@...>
To: <mkars80@...>
Subject: [mkars80] Re: Display frozen
Date: Sat, Oct 20, 2012 23:24

Hi Colin,
I had a slightly different problem with my display. It went wild and frequency went all over the place. I finally traced the problem to Q13,one of it's leads had a poor solder joint. It might be worth checking out this transistor. Hope you can fix it soon.
73, John VO1JCC.
--- In mkars80@..., "dd5cf_colin" <jobaco@...> wrote:
>
> Hi to all members,
> I have been running the MKARS80 for about two years with no problems, this morning the display has frozen a couple of times (for two minutes now), turning the rig off and on the display stayed blank at first but came on again after repeated switching I can tune up and down, RX and TX OK just the problem with the display, I did notice that I had about 6 random characters show up in the Huff_Puff part of the display but they went away when I restarted the rig.
>
> Any ideas would be appreciated.
>
> Vy 73 de Colin DD5CF / G1ZOS
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2675. Re: Display frozen

Yahoo group: mkars80
Date: 2012-10-21 17:52:41 UTC
From: dd5cf_colin
Topic: 2672 Message: 2675

Hi John, thanks for the info I will have a look at that, it looks as though it has cured itself no problems at all today.

Vy 73 Colin

--- In mkars80@..., "johncronhelm@..." <johncronhelm@...> wrote:
>
>
> Hi Colin,
> I had a slightly different problem with my display. It went wild and frequency went all over the place. I finally traced the problem to Q13,one of it's leads had a poor solder joint. It might be worth checking out this transistor. Hope you can fix it soon.
> 73, John VO1JCC.
> --- In mkars80@..., "dd5cf_colin" <jobaco@> wrote:
> >
> > Hi to all members,
> > I have been running the MKARS80 for about two years with no problems, this morning the display has frozen a couple of times (for two minutes now), turning the rig off and on the display stayed blank at first but came on again after repeated switching I can tune up and down, RX and TX OK just the problem with the display, I did notice that I had about 6 random characters show up in the Huff_Puff part of the display but they went away when I restarted the rig.
> >
> > Any ideas would be appreciated.
> >
> > Vy 73 de Colin DD5CF / G1ZOS
> >
>

2676. Re: Display frozen

Yahoo group: mkars80
Date: 2012-10-21 17:55:19 UTC
From: dd5cf_colin
Topic: 2672 Message: 2676

Hi Steve, thanks for your reply I will look into it, had no problems with the display today, so it maybe a dry joint.

Vy 73 de Colin

--- In mkars80@yahoogroups.co.uk, "steve@..." <steve@...> wrote:
>
> That could be a good candidate, also worth checking all the display connections are making through the pin and socket arangement.
> Steve
>
>
>
> ----- Reply message -----
> From: "johncronhelm@..." <johncronhelm@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: Display frozen
> Date: Sat, Oct 20, 2012 23:24
>
>
>
> Hi Colin,
> I had a slightly different problem with my display. It went wild and frequency went all over the place. I finally traced the problem to Q13,one of it's leads had a poor solder joint. It might be worth checking out this transistor. Hope you can fix it soon.
> 73, John VO1JCC.
> --- In mkars80@..., "dd5cf_colin" <jobaco@> wrote:
> >
> > Hi to all members,
> > I have been running the MKARS80 for about two years with no problems, this morning the display has frozen a couple of times (for two minutes now), turning the rig off and on the display stayed blank at first but came on again after repeated switching I can tune up and down, RX and TX OK just the problem with the display, I did notice that I had about 6 random characters show up in the Huff_Puff part of the display but they went away when I restarted the rig.
> >
> > Any ideas would be appreciated.
> >
> > Vy 73 de Colin DD5CF / G1ZOS
> >
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> Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]
>

2677. MKARS80 net

Yahoo group: mkars80
Date: 2012-10-27 04:58:09 UTC
From: dd5cf_colin
Topic: 375 Message: 2677

No net this morning due to contest,
73 Colin

2678. Re: MKARS80 net

Yahoo group: mkars80
Date: 2012-11-05 07:59:34 UTC
From: dd5cf_colin
Topic: 375 Message: 2678

Hi Steve, sorry I missed your post, how did it go on Sunday? I tried on Saturday from 06:00 UTC but had no contacts.

Vy 73 Colin

--- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@...> wrote:
>
> Shall we try a net this Sunday?
>
> We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>

2679. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2012-11-05 08:11:24 UTC
From: steve@radio-kits.co.uk
Topic: 2679 Message: 2679

Hi Colin. That looks like a very old post of mine!
Steve G6ALU

----- Reply message -----
From: "dd5cf_colin" <jobaco@...>
To: <mkars80@...>
Subject: [mkars80] Re: MKARS80 net
Date: Mon, Nov 5, 2012 07:59

Hi Steve, sorry I missed your post, how did it go on Sunday? I tried on Saturday from 06:00 UTC but had no contacts.

Vy 73 Colin

--- In mkars80@..., "Steve Drury" <g6alu@...> wrote:
>
> Shall we try a net this Sunday?
>
> We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
>
> Steve G6ALU
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2680. Re: MKARS80 net

Yahoo group: mkars80
Date: 2012-11-05 16:03:37 UTC
From: dd5cf_colin
Topic: 375 Message: 2680

Sorry Steve my mistake I didn't read right trough to the end.
73 Colin

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> Hi Colin. That looks like a very old post of mine!
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "dd5cf_colin" <jobaco@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: MKARS80 net
> Date: Mon, Nov 5, 2012 07:59
>
>
> Hi Steve, sorry I missed your post, how did it go on Sunday? I tried on Saturday from 06:00 UTC but had no contacts.
>
> Vy 73 Colin
>
> --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> >
> > Shall we try a net this Sunday?
> >
> > We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
> >
> > Steve G6ALU
> >
> > [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
>

2681. Re: MKARS80 net

Yahoo group: mkars80
Date: 2012-11-12 15:24:24 UTC
From: Pascal
Topic: 375 Message: 2681

May be a net on the evening could work now. It is easier to be free to play radio in the evening than on sunday afternoon where we must walk a little to eliminate our extra weight ! What about 8:30pm GMT 3690 +0,+5 this evening ?
73 Pascal F6EHP

--- In mkars80@..., "dd5cf_colin" <jobaco@...> wrote:
>
> Sorry Steve my mistake I didn't read right trough to the end.
> 73 Colin
>
> --- In mkars80@..., "steve@..." <steve@> wrote:
> >
> > Hi Colin. That looks like a very old post of mine!
> > Steve G6ALU
> >
> >
> >
> > ----- Reply message -----
> > From: "dd5cf_colin" <jobaco@>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: MKARS80 net
> > Date: Mon, Nov 5, 2012 07:59
> >
> >
> > Hi Steve, sorry I missed your post, how did it go on Sunday? I tried on Saturday from 06:00 UTC but had no contacts.
> >
> > Vy 73 Colin
> >
> > --- In mkars80@yahoogroups.co.uk, "Steve Drury" <g6alu@> wrote:
> > >
> > > Shall we try a net this Sunday?
> > >
> > > We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
> > >
> > > Steve G6ALU
> > >
> > > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
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>

2682. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2012-11-13 14:27:01 UTC
From: Panagiotis Perreas
Topic: 375 Message: 2682

Good afternoon Pascal!
I am doing overtime today but I can give it a try tomorrow evening!
73 to all!
Panos
m0lpt/sv3auw

From: Pascal <pascal@...>
To: mkars80@...
Sent: Monday, 12 November 2012, 15:24
Subject: [mkars80] Re: MKARS80 net

May be a net on the evening could work now. It is easier to be free to play radio in the evening than on sunday afternoon where we must walk a little to eliminate our extra weight ! What about 8:30pm GMT 3690 +0,+5 this evening ?
73 Pascal F6EHP

--- In mkars80@..., "dd5cf_colin" <jobaco@...> wrote:
>
> Sorry Steve my mistake I didn't read right trough to the end.
> 73 Colin
>
> --- In mkars80@..., "steve@..." <steve@> wrote:
> >
> > Hi Colin. That looks like a very old post of mine!
> > Steve G6ALU
> >
> >
> >
> > ----- Reply message -----
> > From: "dd5cf_colin" <jobaco@>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: MKARS80 net
> > Date: Mon, Nov 5, 2012 07:59
> >
> >
> > Hi Steve, sorry I missed your post, how did it go on Sunday? I tried on Saturday from 06:00 UTC but had no contacts.
> >
> > Vy 73 Colin
> >
> > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > >
> > > Shall we try a net this Sunday?
> > >
> > > We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at

14:00 UTC this coming Sunday 14th December.. all welcome!
> > >
> > > Steve G6ALU
> > >
> > > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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2683. Re: MKARS80 net

Yahoo group: mkars80
Date: 2012-11-13 21:16:00 UTC
From: Pascal
Topic: 375 Message: 2683

Hello Panos,
I suggest 3650 if 3690 is too crowdy as it was the last days - Hope to hear you ! 73 fr Pascal

--- In mkars80@..., Panagiotis Perreas <sv3auw@...> wrote:
>
> Good afternoon Pascal!
> I am doing overtime today but I can give it a try tomorrow evening!
> 73 to all!
> Panos
> m0lpt/sv3auw
>
>
>
> _____
> From: Pascal <pascal@...>
> To: mkars80@...
> Sent: Monday, 12 November 2012, 15:24
> Subject: [mkars80] Re: MKARS80 net
>
>
> Â
> May be a net on the evening could work now. It is easier to be free to play radio in the evening than on sunday afternoon where we must walk a little to eliminate our extra weight ! What about 8:30pm GMT 3690 +0,+5 this evening ?
> 73 Pascal F6EHP
>
> --- In mkars80@..., "dd5cf_colin" <jobaco@> wrote:
> >
> > Sorry Steve my mistake I didn't read right trough to the end.
> > 73 Colin
> >
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > Hi Colin. That looks like a very old post of mine!
> > > Steve G6ALU
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "dd5cf_colin" <jobaco@>
> > > To: <mkars80@...>
> > > Subject: [mkars80] Re: MKARS80 net
> > > Date: Mon, Nov 5, 2012 07:59
> > >

> > >
> > > Hi Steve, sorry I missed your post, how did it go on Sunday? I tried on Saturday from 06:00 UTC but had no contacts.
> > >
> > > Vy 73 Colin
> > >
> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > > >
> > > > Shall we try a net this Sunday?
> > > >
> > > > We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
> > > >
> > > > Steve G6ALU
> > > >
> > > > [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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2684. Re: [mkars80] Re: MKARS80 net

Yahoo group: mkars80
Date: 2012-11-15 11:35:36 UTC
From: Panagiotis Perreas
Topic: 375 Message: 2684

Hi Pascal at all!
I was listening and calling with my MKARS80 at 3.690-92MHz and I was listening also the the SDR radio at www.nachtuilen.net
Zilch! nothing!
The band was at its low. I was scanning down to 3.650MHz, listening to signals just above the noise floor.
Better luck next time!
73 to all
Panos
sv3auw/m0lpt

From: Pascal <pascal@...>
To: mkars80@...
Sent: Tuesday, 13 November 2012, 21:16
Subject: [mkars80] Re: MKARS80 net

Hello Panos,
I suggest 3650 if 3690 is too crowdy as it was the last days - Hope to hear you ! 73 fr Pascal

--- In mkars80@..., Panagiotis Perreas <sv3auw@...> wrote:
>
> Good afternoon Pascal!
> I am doing overtime today but I can give it a try tomorrow evening!
> 73 to all!
> Panos
> m0lpt/sv3auw
>
>
>
> ---
> From: Pascal <pascal@...>
> To: mkars80@...
> Sent: Monday, 12 November 2012, 15:24
> Subject: [mkars80] Re: MKARS80 net
>
>
> Â
> May be a net on the evening could work now. It is easier to be free to play radio in the evening than on sunday afternoon where we must walk a little to eliminate our extra weight ! What about 8:30pm GMT 3690 +0,+5 this evening ?
> 73 Pascal F6EHP
>
> --- In mkars80@..., "dd5cf_colin" <jobaco@> wrote:
> >

> > Sorry Steve my mistake I didn't read right trough to the end.
> > 73 Colin
> >
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > Hi Colin. That looks like a very old post of mine!
> > > Steve G6ALU
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "dd5cf_colin" <jobaco@>
> > > To: <mkars80@...>
> > > Subject: [mkars80] Re: MKARS80 net
> > > Date: Mon, Nov 5, 2012 07:59
> > >
> > >
> > > Hi Steve, sorry I missed your post, how did it go on Sunday? I tried on Saturday from 06:00 UTC but had no contacts.
> > >
> > > Vy 73 Colin
> > >
> > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > > >
> > > > Shall we try a net this Sunday?
> > > >
> > > > We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
> > > >
> > > > Steve G6ALU
> > > >
> > > > [Non-text portions of this message have been removed]
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2685. Re: MKARS80 net

Yahoo group: mkars80
Date: 2012-11-16 20:30:15 UTC
From: Pascal
Topic: 375 Message: 2685

Hi Panos,

Nothing heard !
We will try with a better propagation, Best 73, Pascal

--- In mkars80@..., Panagiotis Perreas <sv3auw@...> wrote:
>
> Hi Pascal at all!
> I was listening and calling with my MKARS80 at 3.690-92MHz and I was listening also the the SDR radio at www.nachtuilen.net
> Zilch! nothing!
> The band was at its low. I was scanning down to 3.650MHz, listening to signals just above the noise floor.
> Better luck next time!
> 73 to allÂ
> Panos
> sv3auw/m0lpt
>
>
> _____
> From: Pascal <pascal@...>
> To: mkars80@...
> Sent: Tuesday, 13 November 2012, 21:16
> Subject: [mkars80] Re: MKARS80 net
>
>
> Â
> Hello Panos,
> I suggest 3650 if 3690 is too crowdy as it was the last days - Hope to hear you ! 73 fr Pascal
>
> --- In mkars80@..., Panagiotis Perreas <sv3auw@> wrote:
> >
> > Good afternoon Pascal!
> > I am doing overtime today but I can give it a try tomorrow evening!
> > 73 to all!
> > Panos
> > m0lpt/sv3auw
> >
> >
> >
> > _____
> > From: Pascal <pascal@>
> > To: mkars80@yahoogroups.co.uk
> > Sent: Monday, 12 November 2012, 15:24
> > Subject: [mkars80] Re: MKARS80 net

> >
> >
> > Ã□Â
> > May be a net on the evening could work now. It is easier to be free to play radio in the evening than on sunday afternoon where we must walk a little to eliminate our extra weight ! What about 8:30pm GMT 3690 +0,+5 this evening ?
> > 73 Pascal F6EHP
> >
> > --- In mkars80@..., "dd5cf_colin" <jobaco@> wrote:
> > >
> > > Sorry Steve my mistake I didn't read right trough to the end.
> > > 73 Colin
> > >
> > > --- In mkars80@..., "steve@" <steve@> wrote:
> > > >
> > > > Hi Colin. That looks like a very old post of mine!
> > > > Steve G6ALU
> > > >
> > > >
> > > >
> > > > ----- Reply message -----
> > > > From: "dd5cf_colin" <jobaco@>
> > > > To: <mkars80@...>
> > > > Subject: [mkars80] Re: MKARS80 net
> > > > Date: Mon, Nov 5, 2012 07:59
> > > >
> > > >
> > > > Hi Steve, sorry I missed your post, how did it go on Sunday? I tried on Saturday from 06:00 UTC but had no contacts.
> > > >
> > > > Vy 73 Colin
> > > >
> > > > --- In mkars80@..., "Steve Drury" <g6alu@> wrote:
> > > > >
> > > > > Shall we try a net this Sunday?
> > > > >
> > > > > We found that 15:00 UTC was a bit late so I intend to hold a net on 3.7000 MHz at 14:00 UTC this coming Sunday 14th December.. all welcome!
> > > > >
> > > > > Steve G6ALU
> > > > >
> > > > > [Non-text portions of this message have been removed]
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> > > > Yahoo! Groups Links
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2686. SSB 80m CW Contest in Holland 18/11/2012, see link

Yahoo group: mkars80
Date: 2012-11-17 10:28:44 UTC
From: pe1fjn
Topic: 2686 Message: 2686

Tomorrow there is a nice 80m SSB contest.

Little late for 80m SSB but stations from North Part of Holland will be QRV with good antenna's from noise level low area and good ground conditions, so it's a good chance to get in touch with Holland in SSB.

I plan to install later today a 80m coil loaded Dipole for good radiation efficiency and radiation to the sky with high 90 degrees elevation angle.

Details: http://www.pi4lwd.nl/index.html

Have fun

73
Marc

http://www.pi4lwd.nl/index.html

2687. It works!

Yahoo group: mkars80
Date: 2012-11-17 12:03:40 UTC
From: beano325
Topic: 2687 Message: 2687

Hello everyone

Bought my MKARS80 at Kempton park last sunday, couple of hours every evening and it's finished and working this morning!

My only issue was very low output power, checked all transistor voltages and found Q9 was 0v on all pins. A quick look round and poke soon discovered T3 wasn't soldered properly.

Just had a quick Qso with my mate across town, and he says it sounds good, if a bit off freq.

It was a joy to build and It's a shame I've finished :)

Hope to catch one of you on the MKARS net.

Cheers
James
G7VAE

2688. LED NOT FLASHING AT HIGHER END OF BAND

Yahoo group: mkars80
Date: 2012-11-18 08:30:12 UTC
From: barrie2emma
Topic: 2688 Message: 2688

Help please. Modulation light will only flash from 3.59 - 3.619
and it shows full power on the meter. The higher it goes the lower the power reading? Apart from that all other function are working correctly and very good on RX.

Any help please?

2689. Re: LED NOT FLASHING AT HIGHER END OF BAND

Yahoo group: mkars80
Date: 2012-11-18 08:53:22 UTC
From: pe1fjn
Topic: 2688 Message: 2689

Could give it a try to help.

But need more information:

Need to understand if your MKARS80 produces at least a CW carier at the planned frequency, so the PWR output is from the VFO in MKARS80.

1)Did you try to listen on SW receiver, dummy load on MKARS80 and no antenna on RX, and what did you hear.
-Just a carier?
-Carier with side band modulation?
2)does the frequency match on RX roughly match with the frequency on the MKARS80?

If the signal is at the right frequency, and a pure carier, something wrong in the Audio/RF SSB mixer/balans modulator.
If you have modulation, but just also a continues carrier, the balance modulator is out of balance. Check diode polarities, make sure transfer is connected fully, not easy to check, need maybe just resolder at high temp all trafo solder points.

Let us know what you found , I will check mail from forum daily.

73
PE1FJN
Marc

--- In mkars80@..., "barrie2emma" <barriem3@...> wrote:
>
> Help please. Modulation light will only flash from 3.59 - 3.619
> and it shows full power on the meter. The higher it goes the lower the power reading? Apart from that all other function are working correctly and very good on RX.
>
> Any help please?
>

2690. Re: [mkars80] LED NOT FLASHING AT HIGHER END OF BAND

Yahoo group: mkars80
Date: 2012-11-18 21:11:57 UTC
From: Steve Drury
Topic: 2688 Message: 2690

Barrie..
Do you have to shout into the microphone to get the LED to flicker? Its normal for the LED to flicker with normal speech 6-12" from the microphone, if you need to shout check all the soldered connections on transformers - its VERY common to not solder the wires properly. To avoid this issue its best to tin them before fitting to PCB.

There is a possibility that the inductors in the output filter have too many turns - if you have an oscilloscope can you see if you are getting the full voltage swing on the drain of the output transistor regardless of frequency? If so check the turns on the inductors.

Hope this helps,
Steve G6ALU

On 18/11/2012 08:30, barrie2emma wrote:
> Help please. Modulation light will only flash from 3.59 - 3.619
> and it shows full power on the meter. The higher it goes the lower the power reading?
Apart from that all other function are working correctly and very good on RX.
>
> Any help please?
>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2221 / Virus Database: 2629/5403 - Release Date: 11/18/12
>
>

2691. Trans-atlantic Qso on MKARS80

Yahoo group: mkars80
Date: 2012-11-19 00:25:32 UTC
From: johncronhelm@nl.rogers.com
Topic: 2691 Message: 2691

Anyone interested in a contact with me some night at 2300 UTC on 3.790+/- using MKARS80 rigsMy location St.John's NL. Have had good contact with UK station (non MKARS80) using my MKARS 80 tonight.Thanks, John,VO1JCC

[Non-text portions of this message have been removed]

2692. Re: Trans-atlantic Qso on MKARS80

Yahoo group: mkars80
Date: 2012-11-23 14:36:24 UTC
From: pe1fjn
Topic: 2691 Message: 2692

Hello John,

I'm very much interested, but must plan carefully.

First at all I need to install my 80m portable GP with enough radials, for which I need reasonable weather, and I have the option to go to Nieuw Beerta location, FB HF location !

As back up CW would be nice, I have also T1380 Ten-Tec kit with 3W RF on CW.

I will give you heads-up when I can be QRV on 80m at midnight. ALready worked transatlantic on 40m at midnight in CW with 3W, my MKARS 80 is now a few months operational.

Please keep in touch via marcschijven@... which I check daily.

73
PE1FJN
Marc

--- In mkars80@yahoogroups.co.uk, "johncronhelm@..." <johncronhelm@...> wrote:
>
> Anyone interested in a contact with me some night at 2300 UTC on
> 3.790+/- using MKARS80 rigsMy location St.John's NL. Have had good
> contact with UK station (non MKARS80) using my MKARS 80 tonight.Thanks,
> John,VO1JCC
>
>
> [Non-text portions of this message have been removed]
>

2693. Re: LED NOT FLASHING AT HIGHER END OF BAND

Yahoo group: mkars80
Date: 2012-11-23 15:03:39 UTC
From: barrie2emma
Topic: 2688 Message: 2693

Thanks Steve. Loud but not shouting, it seems strange that on the lower part of the band it is fine but the higher I go it stops flashing and the power drops. If time allows over the wekend will check the windings. Thanks again Barrie

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Barrie..
> Do you have to shout into the microphone to get the LED to flicker? Its
> normal for the LED to flicker with normal speech 6-12" from the
> microphone, if you need to shout check all the soldered connections on
> transformers - its VERY common to not solder the wires properly. To
> avoid this issue its best to tin them before fitting to PCB.
>
> There is a possibility that the inductors in the output filter have too
> many turns - if you have an oscilloscope can you see if you are getting
> the full voltage swing on the drain of the output transistor regardless
> of frequency? If so check the turns on the inductors.
>
> Hope this helps,
> Steve G6ALU
>
>
> On 18/11/2012 08:30, barrie2emma wrote:
> > Help please. Modulation light will only flash from 3.59 - 3.619
> > and it shows full power on the meter. The higher it goes the lower the power reading?
Apart from that all other function are working correctly and very good on RX.
> >
> > Any help please?
> >
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2012.0.2221 / Virus Database: 2629/5403 - Release Date: 11/18/12
> >
> >

>

2694. Re: LED NOT FLASHING AT HIGHER END OF BAND

Yahoo group: mkars80
Date: 2012-11-23 15:42:17 UTC
From: Mark
Topic: 2688 Message: 2694

Hi Barrie,

Have you tried adjusting your transmit bandpass filter, "C54, C68 and C79 band pass filter"? The manual says the settings are not critical, however your symptoms point to this being a possible cause. Personally, I would try adjusting these while on a low-output frequency and see if the power can be made to come up.

73,

Mark - N7EKU

--- In mkars80@yahoogroups.co.uk, "barrie2emma" <barriem3@...> wrote:
>
> Thanks Steve. Loud but not shouting, it seems strange that on the lower part of the band it is fine but the higher I go it stops flashing and the power drops. If time allows over the wekend will check the windings. Thanks again Barrie
>
> --- In mkars80@..., Steve Drury <steve@> wrote:
> >
> > Barrie..
> > Do you have to shout into the microphone to get the LED to flicker? Its
> > normal for the LED to flicker with normal speech 6-12" from the
> > microphone, if you need to shout check all the soldered connections on
> > transformers - its VERY common to not solder the wires properly. To
> > avoid this issue its best to tin them before fitting to PCB.
> >
> > There is a possibility that the inductors in the output filter have too
> > many turns - if you have an oscilloscope can you see if you are getting
> > the full voltage swing on the drain of the output transistor regardless
> > of frequency? If so check the turns on the inductors.
> >
> > Hope this helps,
> > Steve G6ALU
> >
> >
> > On 18/11/2012 08:30, barrie2emma wrote:
> > > Help please. Modulation light will only flash from 3.59 - 3.619
> > > and it shows full power on the meter. The higher it goes the lower the power reading? Apart from that all other function are working correctly and very good on RX.
> > >
> > > Any help please?
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> > > Yahoo! Groups Links
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> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.2221 / Virus Database: 2629/5403 - Release Date: 11/18/12
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>

2695. Re: [mkars80] Re: LED NOT FLASHING AT HIGHER END OF BAND

Yahoo group: mkars80
Date: 2012-11-23 20:08:24 UTC
From: steve@radio-kits.co.uk
Topic: 2695 Message: 2695

The settings aren't critical if everything else is OK.....
Steve

----- Reply message -----
From: "Mark" <mark7311@...>
To: <mkars80@...>
Subject: [mkars80] Re: LED NOT FLASHING AT HIGHER END OF BAND
Date: Fri, Nov 23, 2012 15:42

Hi Barrie,

Have you tried adjusting your transmit bandpass filter, "C54, C68 and C79 band pass filter"? The manual says the settings are not critical, however your symptoms point to this being a possible cause. Personally, I would try adjusting these while on a low-output frequency and see if the power can be made to come up.

73,

Mark - N7EKU

--- In mkars80@..., "barrie2emma" <barriem3@...> wrote:
>
> Thanks Steve. Loud but not shouting, it seems strange that on the lower part of the band it is fine but the higher I go it stops flashing and the power drops. If time allows over the wekend will check the windings. Thanks again Barrie
>
> --- In mkars80@..., Steve Drury <steve@> wrote:
> >
> > Barrie..
> > Do you have to shout into the microphone to get the LED to flicker? Its
> > normal for the LED to flicker with normal speech 6-12" from the
> > microphone, if you need to shout check all the soldered connections on
> > transformers - its VERY common to not solder the wires properly. To
> > avoid this issue its best to tin them before fitting to PCB.
> >
> > There is a possibility that the inductors in the output filter have too
> > many turns - if you have an oscilloscope can you see if you are getting
> > the full voltage swing on the drain of the output transistor regardless
> > of frequency? If so check the turns on the inductors.
> >
> > Hope this helps,
> > Steve G6ALU
> >
> >
> > On 18/11/2012 08:30, barrie2emma wrote:
> > > Help please. Modulation light will only flash from 3.59 - 3.619

> > > and it shows full power on the meter. The higher it goes the lower the power reading? Apart from that all other function are working correctly and very good on RX.
> > >
> > > Any help please?
> > >
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > >
> > >
> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2012.0.2221 / Virus Database: 2629/5403 - Release Date: 11/18/12
> > >
> > >
> >
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2696. Fading receive Audio

Yahoo group: mkars80
Date: 2012-11-23 23:06:51 UTC
From: johncronhelm@nl.rogers.com
Topic: 2696 Message: 2696

Recently I am experiencing intermittent fading of the receive audio,which recovers when the microphone is keyed. Does this suggest a bad relay? Any ideas please?73 to all, John, vo1jcc.

[Non-text portions of this message have been removed]

2697. Re: [mkars80] Fading receive Audio

Yahoo group: mkars80
Date: 2012-11-24 08:47:33 UTC
From: steve@radio-kits.co.uk
Topic: 2697 Message: 2697

John,
Could be but could also be a poor solder joint on one of the filter inductors or mixer transformers - the vibration of the relay throwing fixing the problem.
So check this first as removing the relay can be tricky.
Steve G6ALU

----- Reply message -----
From: "johncronhelm@..." <johncronhelm@...>
To: <mkars80@...>
Subject: [mkars80] Fading receive Audio
Date: Fri, Nov 23, 2012 23:06

Recently I am experiencing intermittent fading of the receive audio,which recovers when the microphone is keyed. Does this suggest a bad relay? Any ideas please?73 to all, John, vo1jcc.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2698. Re: Fading receive Audio

Yahoo group: mkars80
Date: 2012-11-24 18:07:54 UTC
From: johncronhelm@nl.rogers.com
Topic: 2696 Message: 2698

Thanks Steve,
I will check the inductors and transformers and let you know what happens.
Regards, John vo1jcc.

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> John,
> Could be but could also be a poor solder joint on one of the filter inductors or mixer transformers - the vibration of the relay throwing fixing the problem.
> So check this first as removing the relay can be tricky.
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "johncronhelm@..." <johncronhelm@...>
> To: <mkars80@...>
> Subject: [mkars80] Fading receive Audio
> Date: Fri, Nov 23, 2012 23:06
>
>
> Recently I am experiencing intermittent fading of the receive
> audio,which recovers when the microphone is keyed. Does this suggest a
> bad relay? Any ideas please?73 to all, John, vo1jcc.
>
>
> [Non-text portions of this message have been removed]
>
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> ------------------------------------
>
> Yahoo! Groups Links
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>
>
> [Non-text portions of this message have been removed]
>

2699. Re: [mkars80] Re: Fading receive Audio

Yahoo group: mkars80
Date: 2012-11-24 18:47:08 UTC
From: steve@radio-kits.co.uk
Topic: 2699 Message: 2699

If you need a relay please email your address directly and I will get one posted.
Steve

----- Reply message -----
From: "johncronhelm@..." <johncronhelm@...>
To: <mkars80@...>
Subject: [mkars80] Re: Fading receive Audio
Date: Sat, Nov 24, 2012 18:07

Thanks Steve,
I will check the inductors and transformers and let you know what happens.
Regards, John vo1jcc.

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> John,
> Could be but could also be a poor solder joint on one of the filter inductors or mixer transformers - the vibration of the relay throwing fixing the problem.
> So check this first as removing the relay can be tricky.
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "johncronhelm@..." <johncronhelm@...>
> To: <mkars80@...>
> Subject: [mkars80] Fading receive Audio
> Date: Fri, Nov 23, 2012 23:06
>
>
> Recently I am experiencing intermittent fading of the receive
> audio,which recovers when the microphone is keyed. Does this suggest a
> bad relay? Any ideas please?73 to all, John, vo1jcc.
>
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>

>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2700. Re: Fading receive Audio

Yahoo group: mkars80
Date: 2012-11-25 00:45:31 UTC
From: johncronhelm@nl.rogers.com
Topic: 2696 Message: 2700

Hi Steve, Thanks for offer,may not be relay. See email. Will hold off for now.
Thanks, John.

--- In mkars80@..., "steve@....uk" <steve@...> wrote:
>
> If you need a relay please email your address directly and I will get one posted.
> Steve
>
>
>
> ----- Reply message -----
> From: "johncronhelm@..." <johncronhelm@...>
> To: <mkars80@yahoogroups.co.uk>
> Subject: [mkars80] Re: Fading receive Audio
> Date: Sat, Nov 24, 2012 18:07
>
>
> Thanks Steve,
> I will check the inductors and transformers and let you know what happens.
> Regards, John vo1jcc.
>
> --- In mkars80@..., "steve@..." <steve@> wrote:
> >
> > John,
> > Could be but could also be a poor solder joint on one of the filter inductors or mixer transformers - the vibration of the relay throwing fixing the problem.
> > So check this first as removing the relay can be tricky.
> > Steve G6ALU
> >
> >
> >
> > ----- Reply message -----
> > From: "johncronhelm@" <johncronhelm@>
> > To: <mkars80@...>
> > Subject: [mkars80] Fading receive Audio
> > Date: Fri, Nov 23, 2012 23:06
> >
> >
> > Recently I am experiencing intermittent fading of the receive
> > audio,which recovers when the microphone is keyed. Does this suggest a
> > bad relay? Any ideas please?73 to all, John, vo1jcc.
> >
> >
> > [Non-text portions of this message have been removed]
> >

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> > Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>
> [Non-text portions of this message have been removed]
>

2701. Success!

Yahoo group: mkars80
Date: 2012-11-26 03:30:48 UTC
From: johncronhelm@nl.rogers.com
Topic: 1014 Message: 2701

I am not sure exactly how this worked,but audio suddenly came alive after I tightened up the M3 nut and screw that attaches the final transistor to the case of the MKARS80 separated by the insulator.
John vo1jcc.

2702. Re: Trans-atlantic Qso on MKARS80

Yahoo group: mkars80
Date: 2012-11-26 07:41:32 UTC
From: dd5cf_colin
Topic: 2691 Message: 2702

Hi John, I would also be interested but could only make Fridays or Saturdays, Vy 73 de Colin DD5CF / G1ZOS

--- In mkars80@..., "johncronhelm@..." <johncronhelm@...> wrote:
>
> Anyone interested in a contact with me some night at 2300 UTC on
> 3.790+/- using MKARS80 rigsMy location St.John's NL. Have had good
> contact with UK station (non MKARS80) using my MKARS 80 tonight.Thanks,
> John,VO1JCC
>
>
> [Non-text portions of this message have been removed]
>

2703. Re: Trans-atlantic Qso on MKARS80

Yahoo group: mkars80
Date: 2012-11-26 11:18:32 UTC
From: johncronhelm@nl.rogers.com
Topic: 2691 Message: 2703

Thanks Colin,all being well we could try this coming Friday and Saturday @. 2300Z
John,vo1jcc.

--- In mkars80@..., "dd5cf_colin" <jobaco@...> wrote:
>
> Hi John, I would also be interested but could only make Fridays or Saturdays, Vy 73 de
Colin DD5CF / G1ZOS
>
> --- In mkars80@yahoogroups.co.uk, "johncronhelm@" <johncronhelm@> wrote:
> >
> > Anyone interested in a contact with me some night at 2300 UTC on
> > 3.790+/- using MKARS80 rigsMy location St.John's NL. Have had good
> > contact with UK station (non MKARS80) using my MKARS 80 tonight.Thanks,
> > John,VO1JCC
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

2704. Re: Trans-atlantic Qso on MKARS80

Yahoo group: mkars80
Date: 2012-11-27 11:00:58 UTC
From: dd5cf_colin
Topic: 2691 Message: 2704

I will listen out for you John, I am on facebook or skype for instant messaging.

73 Colin
--- In mkars80@..., "johncronhelm@..." <johncronhelm@...> wrote:
>
> Thanks Colin,all being well we could try this coming Friday and Saturday @. 2300Z
> John,vo1jcc.
>
> --- In mkars80@yahoogroups.co.uk, "dd5cf_colin" <jobaco@> wrote:
> >
> > Hi John, I would also be interested but could only make Fridays or Saturdays, Vy 73 de Colin DD5CF / G1ZOS
> >
> > --- In mkars80@..., "johncronhelm@" <johncronhelm@> wrote:
> > >
> > > Anyone interested in a contact with me some night at 2300 UTC on
> > > 3.790+/- using MKARS80 rigsMy location St.John's NL. Have had good
> > > contact with UK station (non MKARS80) using my MKARS 80 tonight.Thanks,
> > > John,VO1JCC
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

2705. Re: Trans-atlantic Qso on MKARS80

Yahoo group: mkars80
Date: 2012-11-29 20:36:37 UTC
From: dd5cf_colin
Topic: 2691 Message: 2705

Hi John, I have just found out that I will have to work until the early hours of Saturday morning, so I will listen out for you at 23:00Z on Saturday.

73 Colin DD5CF / G1ZOS

--- In mkars80@..., "dd5cf_colin" <jobaco@...> wrote:
>
> Hi John, I would also be interested but could only make Fridays or Saturdays, Vy 73 de Colin DD5CF / G1ZOS
>
> --- In mkars80@yahoogroups.co.uk, "johncronhelm@" <johncronhelm@> wrote:
> >
> > Anyone interested in a contact with me some night at 2300 UTC on
> > 3.790+/- using MKARS80 rigsMy location St.John's NL. Have had good
> > contact with UK station (non MKARS80) using my MKARS 80 tonight.Thanks,
> > John,VO1JCC
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

2706. Re: Trans-atlantic Qso on MKARS80

Yahoo group: mkars80
Date: 2012-11-30 07:57:11 UTC
From: Pascal
Topic: 2691 Message: 2706

Hi John,

This morning at 0700Z, the propagation was really good between east coast and Europe...I hope you will have the same this evening...I will try to listen if not too tired...I forward your project to F4GHB who has a MKRS80 and a better antenna than mine. Good luck and enjoy !

Pascal F6EHP

--- In mkars80@..., "johncronhelm@..." <johncronhelm@...> wrote:
>
> Thanks Colin,all being well we could try this coming Friday and Saturday @. 2300Z
> John,vo1jcc.
>
> --- In mkars80@..., "dd5cf_colin" <jobaco@> wrote:
> >
> > Hi John, I would also be interested but could only make Fridays or Saturdays, Vy 73 de Colin DD5CF / G1ZOS
> >
> > --- In mkars80@..., "johncronhelm@" <johncronhelm@> wrote:
> > >
> > > Anyone interested in a contact with me some night at 2300 UTC on
> > > 3.790+/- using MKARS80 rigsMy location St.John's NL. Have had good
> > > contact with UK station (non MKARS80) using my MKARS 80 tonight.Thanks,
> > > John,VO1JCC
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

2707. New sched. frequency

Yahoo group: mkars80
Date: 2012-12-01 00:32:27 UTC
From: johncronhelm@nl.rogers.com
Topic: 2707 Message: 2707

Thanks Pascal for your post. I have changed the frequency
to 3.780-85 for anyone wishing to contact me on Saturday
night at 2300 UTC. previous frequency too busy.
73,de John vo1jcc.

2708. Re: New sched. frequency

Yahoo group: mkars80
Date: 2012-12-01 22:00:52 UTC
From: dd5cf_colin
Topic: 2707 Message: 2708

I am on 3.781 now John, 73 Colin

--- In mkars80@..., "johncronhelm@..." <johncronhelm@...> wrote:
>
> Thanks Pascal for your post. I have changed the frequency
> to 3.780-85 for anyone wishing to contact me on Saturday
> night at 2300 UTC. previous frequency too busy.
> 73,de John vo1jcc.
>

2709. Re: New sched. frequency

Yahoo group: mkars80
Date: 2012-12-01 22:32:45 UTC
From: dd5cf_colin
Topic: 2707 Message: 2709

Nothing heard John, I had one contact with UT7EZZ but he could only just hear me at a distance of 1253 miles, 2017 Kms.

Vy 73 Colin

--- In mkars80@yahoogroups.co.uk, "dd5cf_colin" <jobaco@...> wrote:
>
> I am on 3.781 now John, 73 Colin
>
>
> --- In mkars80@..., "johncronhelm@" <johncronhelm@> wrote:
> >
> > Thanks Pascal for your post. I have changed the frequency
> > to 3.780-85 for anyone wishing to contact me on Saturday
> > night at 2300 UTC. previous frequency too busy.
> > 73,de John vo1jcc.
> >
>

2710. Tonight's Sched.

Yahoo group: mkars80
Date: 2012-12-02 02:12:35 UTC
From: johncronhelm@nl.rogers.com
Topic: 2710 Message: 2710

Hi Colin,
Thanks to you and all who tried to have a Sched with me tonight. Propagation was very poor and I didn't hear any of you. Perhaps we could leave it for a few weeks and try again sometime.
73 de John, vo1jcc.

2711. Re: Tonight's Sched.

Yahoo group: mkars80
Date: 2012-12-02 05:19:34 UTC
From: dd5cf_colin
Topic: 2710 Message: 2711

Hi John, I have just noticed I had set the alarm one hour too early, must have been due to lack of sleep.

73 Colin
--- In mkars80@..., "johncronhelm@..." <johncronhelm@...> wrote:
>
> Hi Colin,
> Thanks to you and all who tried to have a Sched with me tonight. Propagation was very poor and I didn't hear any of you. Perhaps we could leave it for a few weeks and try again sometime.
> 73 de John, vo1jcc.
>

2712. MKARS80 on 10MHz?

Yahoo group: mkars80
Date: 2012-12-05 08:41:36 UTC
From: Ian Wade G3NRW
Topic: 2712 Message: 2712

A (very) long shot.

I am looking for a cheap QRP SSB transceiver that will work on the 10MHz
(30m) band. Has anyone by any chance modified the MKARS80 to do this?

--
73
Ian, G3NRW

>

>

>

>

>

2713. Re: [mkars80] MKARS80 on 10MHz?

Yahoo group: mkars80
Date: 2012-12-05 12:16:37 UTC
From: Ken Greenough
Topic: 2712 Message: 2713

Hello Ian,
With an IF of 10 MHz I think you would
have a problem.
73 Ken g8beq

[Non-text portions of this message have been removed]

2714. Re: MKARS80 on 10MHz?

Yahoo group: mkars80
Date: 2012-12-05 12:38:16 UTC
From: dd5cf_colin
Topic: 2712 Message: 2714

Hi Ian, 30m (as far as I know) is for CW/digital modes only, I would say you were looking to Tx on WSPR or QRSS, Hans Summer and Steve Farthing have Tx only (no PC needed) kits for sale.

http://www.hanssummers.com/shop

Vy 73 Colin DD5CF / G1ZOS

--- In mkars80@..., Ian Wade G3NRW <g3nrw-radio@...> wrote:
>
> A (very) long shot.
>
> I am looking for a cheap QRP SSB transceiver that will work on the 10MHz
> (30m) band. Has anyone by any chance modified the MKARS80 to do this?
>
> --
> 73
> Ian, G3NRW
>
> >
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> >

2715. Re: [mkars80] Re: MKARS80 on 10MHz?

Yahoo group: mkars80
Date: 2012-12-05 16:53:38 UTC
From: Ian Wade G3NRW
Topic: 2712 Message: 2715

___Original Message_____________________________________
From: dd5cf_colin <jobaco@...>
Date: Wed, 5 Dec 2012 Time: 12:38:16
>
>Hi Ian, 30m (as far as I know) is for CW/digital modes only, I would
>say you were looking to Tx on WSPR or QRSS, Hans Summer and Steve
>Farthing have Tx only (no PC needed) kits for sale.
>
>http://www.hanssummers.com/shop
>
>Vy 73 Colin DD5CF / G1ZOS
>

Thanks Colin. Very interesting site.

I am looking for a small SSB radio so that I can run all kinds of AFSK modes, in particular APRS. Modulation methods depend on the mode, so a dedicated mode radio (like QRSS) won't really fit the bill.

--
73
Ian, G3NRW

>

>

>

>

>

2716. Re: [mkars80] MKARS80 on 10MHz?

Yahoo group: mkars80
Date: 2012-12-05 16:55:08 UTC
From: Ian Wade G3NRW
Topic: 2712 Message: 2716

___Original Message_____________________________________
From: Ken Greenough <g0wbm@...>
Date: Wed, 5 Dec 2012 Time: 12:16:37

>Hello Ian,
>With an IF of 10 MHz I think you would
>have a problem.
>73 Ken g8beq

Very good point. I hadn't thought of that!

--
73
Ian, G3NRW

>

>

>

>

>

2717. Re: MKARS80 on 10MHz?

Yahoo group: mkars80
Date: 2012-12-06 10:18:33 UTC
From: dd5cf_colin
Topic: 2712 Message: 2717

Hi Ian, I also use the Softrock RXTX ensemble which I built for 30,20 and 17m bands, it puts out 1 watt and I have had a number of contacts on WSPR and PSK31 on 30m with it.

http://fivedash.com/

73 de Colin

--- In mkars80@yahoogroups.co.uk, Ian Wade G3NRW <g3nrw-radio@...> wrote:
>
> ___Original Message_____
> From: dd5cf_colin <jobaco@...>
> Date: Wed, 5 Dec 2012 Time: 12:38:16
> >
> >Hi Ian, 30m (as far as I know) is for CW/digital modes only, I would
> >say you were looking to Tx on WSPR or QRSS, Hans Summer and Steve
> >Farthing have Tx only (no PC needed) kits for sale.
> >
> >http://www.hanssummers.com/shop
> >
> >Vy 73 Colin DD5CF / G1ZOS
> >
>
>
> Thanks Colin. Very interesting site.
>
> I am looking for a small SSB radio so that I can run all kinds of AFSK
> modes, in particular APRS. Modulation methods depend on the mode, so a
> dedicated mode radio (like QRSS) won't really fit the bill.
>
> --
> 73
> Ian, G3NRW
>
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>

2718. Winter Build

Yahoo group: mkars80
Date: 2012-12-10 18:03:07 UTC
From: charles
Topic: 2718 Message: 2718

Hello all. started building my mkars80 this weekend; my second transceiver project this year - my bitx20a build in the late spring, early summer went very well. (first mkars80 observation: I like the parts in numbered bags) I made it through the transformers in bag 3. I'm going to finish bag three today I hope. the spacing on the board is tight but not problematic. my goal is to finish the build and have it operating before Christmas. (second mkars80 observation: the manual is very good) ... 73 de chas ai4ot

2719. Re: [mkars80] Winter Build

Yahoo group: mkars80
Date: 2012-12-10 18:25:30 UTC
From: John
Topic: 2718 Message: 2719

Hello Charles

First of all good luck with the build. You are correct in saying that
the manual is very good, Steve did a great job.
The really important part of the build, which I'm sure you are aware of
if you have been following the postings in the group, is to be
absolutely sure that the coil connections are good.
Most problems with the build can be traced to joints on the coil wires
because the insulation hasn't been removed sufficiently.

Have fun and I hope it goes well.

73,
John.

On 10/12/2012 18:03, charles wrote:
>
> Hello all. started building my mkars80 this weekend; my second
> transceiver project this year - my bitx20a build in the late spring,
> early summer went very well. (first mkars80 observation: I like the
> parts in numbered bags) I made it through the transformers in bag 3.
> I'm going to finish bag three today I hope. the spacing on the board
> is tight but not problematic. my goal is to finish the build and have
> it operating before Christmas. (second mkars80 observation: the manual
> is very good) ... 73 de chas ai4ot
>
>

[Non-text portions of this message have been removed]

2720. mkars80 working, but ...

Yahoo group: mkars80
Date: 2012-12-13 05:14:30 UTC
From: charles
Topic: 2720 Message: 2720

... the vfo is too high (4.051 mhz)... I think I put too many turns on L5 so I have to check it against my L/C meter ... I could hear signals in this area which must be army mars or something ... but the kit went together very easily! I'll pull L5 and check it out ... tomorrow ...73 de ai4ot

2721. On Frequency!

Yahoo group: mkars80
Date: 2012-12-13 06:06:43 UTC
From: charles
Topic: 2721 Message: 2721

I took the coil out and checked it and it was spot on ... put it back and then it dawned on me ... adjust the orange trimmer capacitor ... and sure enough I moved it slightly and the rig came down into the proper frequency range ... whew ... I really am going to bed now and I'll do the transmitter alignment tomorrow ... 73 de chas ai4ot

2722. huff and puff!

Yahoo group: mkars80
Date: 2012-12-13 23:00:30 UTC
From: charles
Topic: 2722 Message: 2722

Really like the radio's huff and puff feature. Keeps the frequency spot on! I'm going to wire up mic tonight ...73 de chas ai4ot

2723. Re: [mkars80] huff and puff!

Yahoo group: mkars80
Date: 2012-12-14 10:44:49 UTC
From: John
Topic: 2722 Message: 2723

Hi Chas

Just to let you know people are reading about your progress!

Good luck with the next stage. I'm sure the mic connections are obvious
but I did a small diagram for someone a while ago and I think Steve put
it in the files section.

73,
John.

On 13/12/2012 23:00, charles wrote:
>
> Really like the radio's huff and puff feature. Keeps the frequency
> spot on! I'm going to wire up mic tonight ...73 de chas ai4ot
>
>

[Non-text portions of this message have been removed]

2724. Re: [mkars80] huff and puff!

Yahoo group: mkars80
Date: 2012-12-14 11:32:39 UTC
From: steve@radio-kits.co.uk
Topic: 2722 Message: 2724

Remember to read the set up instructions carefuly!

Steve G6ALU

On 2012-12-14 10:44, John wrote:
> Hi Chas
>
> Just to let you know people are reading about your progress!
>
> Good luck with the next stage. I'm sure the mic connections are
> obvious
> but I did a small diagram for someone a while ago and I think Steve
> put
> it in the files section.
>
> 73,
> John.
>
> On 13/12/2012 23:00, charles wrote:
>>
>> Really like the radio's huff and puff feature. Keeps the frequency
>> spot on! I'm going to wire up mic tonight ...73 de chas ai4ot
>>
>>
>
>
> [Non-text portions of this message have been removed]
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>
> Yahoo! Groups Links
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2725. new build progress

Yahoo group: mkars80
Date: 2012-12-14 21:07:18 UTC
From: charles
Topic: 2725 Message: 2725

hello all ... it was so much fun just listening to all of the qso's on 80 meters last night that I didn't get around to wiring up a doo-dad to convert my "normal" mic connections to the mkars connections. (not a big deal because I really don't have an antenna suitable for transmitting on 80m right now ... I live in an apartment and use a base loaded whip that I extend from my window when I operate ... it loads fine on 40 and up but not on 80 ... I can listen with it however. I'll use a hamstick for 80 but I have to dig it out of storage ...) THANKS for reading because so much of the fun of this hobby is sharing the magic with others who understand. I did wire up an external speaker so I wasn't confined to headphones which I use almost exclusively with cw ... I'm taking the kit to my 2meter radio club meeting saturday and will show it off and talk about kit building in general ... I'm thinking about making a box for it from pc board because I'd like to have it slope ... anyway, enough of this prattle ... very nice kit! 73 de chas ai4ot

2726. mkars80-unsubscribe@yahoogroups.co.uk

Yahoo group: mkars80
Date: 2012-12-21 21:44:51 UTC
From: alang3rtm
Topic: 2726 Message: 2726

Bye

2727. Season Greetings

Yahoo group: mkars80
Date: 2012-12-24 11:51:28 UTC
From: Panagiotis Perreas
Topic: 2320 Message: 2727

To all friends and members of the MKARS80

I WISH YOU A MERRY CHRISTMAS AND A HAPPY NEW YEAR!!!

My BEST WISHES to you STEVE!!!
YOU ARE CONTRIBUTING A LOT TO HOME-BREW RADIO!!! YOU ARE AN INSPIRATION TO US ALL!!!

Panos
sv3auw/m0lpt

[Non-text portions of this message have been removed]

2728. New Year's MKARS80 fun :-)

Yahoo group: mkars80
Date: 2013-01-01 17:56:09 UTC
From: Colin
Topic: 2728 Message: 2728

Hello to the group and best wishes for 2013.

Today I took along my MKARS 80 rig with me on my New Years' Day SOTA activation of Rombalds Moor (SOTA ref G/NP-028).

I don't have a permanent antenna at my QTH, so I've haven't really tried out the MKARS 80 before. I once took the rig to a friends house but he has such high QRN that I didn't manage a contact and wasn't sure if the rig worked!

Today my CQ call was answered almost straight away and reports were very favourable. I worked a small number of stations in succession. I spoke to an amateur later on, on 2m FM, and I asked him how my MKARS QSO with him had sounded at his end, his reply was that he wasn't even aware that the rig had been home constructed, he had thought I was using commercial gear!

I noticed that the huff puff was only just holding lock, when normally at home temperatures it seems to hold very steady indeed. I think the huff puff circuit is a great asset, especially for portable ops -I think I would have been a bit drifty this morning without it!

Today's photo -
http://www.flickr.com/photos/24901892@N03/8332879659/

Great kit Steve!

Happy New Year!

73
Colin, M0CGH

2729. MKARS80 transatlantic qso

Yahoo group: mkars80
Date: 2013-01-02 19:55:46 UTC
From: johncronhelm@nl.rogers.com
Topic: 2729 Message: 2729

I should be grateful if as a preliminary some of the group could check 3.740mhz. any evening at 2230Z when the Newfoundland and Labrador Net is in operation. Contacts from anywhere are taken after approx. 10 mins., Please let me know if you receive sigs. with your MKARS80 or make a contact. I should be on with my MKARS80.
Thank you and a very Happy New Year.
John vo1jcc.

2730. Blown the dust off..

Yahoo group: mkars80
Date: 2013-01-07 17:40:10 UTC
From: Philip
Topic: 2730 Message: 2730

Got my MKARS80 out today..
Not used it for a few months so thought it was time to blow
the dust off.

Anyhoo, it fired up no problem and I tried out my new 132' Windom with it.
Tail ended a QSO and got a reply giving me a good report from about
170 miles away..

Great fun

Philip G4JVF

2731. digital swr meter kit

Yahoo group: mkars80
Date: 2013-01-09 17:12:16 UTC
From: F5mpw
Topic: 2651 Message: 2731

Hello to the list.

I started the kit DIGITAL SWR METER this afternoon. It a pleasure with the nice wx!
I have a problem with L1 and L2.
It's resistors 100 ohms not selfs???. I think you use selfic effect of the resistor??? If I am wrong may you tell me. I will sold but I wait.

I try to read the pdf, perhaps I have a problem to translate ;-)

All the best and happy new year!

73 Philippe F5MPW

[Non-text portions of this message have been removed]

2732. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2013-01-09 17:50:19 UTC
From: John
Topic: 2651 Message: 2732

Hi Philippe

On page 4 of the V1.1 instructions it says 'Positions L1 and L2 have resistors fitted'.
In the 100 ohm list under that the last 2 are L1 & L2 so just fit the resistors and ignore the fact that they are labelled as inductors.

I made this kit quite a while ago and it's very good. I separated mine into two parts because I didn't have a suitable box.
The difficulty is that the switches are in a very strange position so I altered mine by changing the position of the display which puts the switches on the back.

I wish you every success.

73,
John.

On 09/01/2013 17:12, F5mpw wrote:
>
> Hello to the list.
>
> I started the kit DIGITAL SWR METER this afternoon. It a pleasure with
> the nice wx!
> I have a problem with L1 and L2.
> It's resistors 100 ohms not selfs???. I think you use selfic effect of
> the resistor??? If I am wrong may you tell me. I will sold but I wait.
>
> I try to read the pdf, perhaps I have a problem to translate ;-)
>
> All the best and happy new year!
>
> 73 Philippe F5MPW
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

2733. Re: [mkars80] digital swr meter kit

Yahoo group: mkars80
Date: 2013-01-09 17:58:08 UTC
From: steve@radio-kits.co.uk
Topic: 2733 Message: 2733

That's correct, we found the inductors weren't required so have used resistors to replace them.

Steve G6ALU

----- Reply message -----
From: "John" <john@...>
To: <mkars80@...>
Subject: [mkars80] digital swr meter kit
Date: Wed, Jan 9, 2013 17:50

Hi Philippe

On page 4 of the V1.1 instructions it says 'Positions L1 and L2 have resistors fitted'.
In the 100 ohm list under that the last 2 are L1 & L2 so just fit the resistors and ignore the fact that they are labelled as inductors.

I made this kit quite a while ago and it's very good. I separated mine into two parts because I didn't have a suitable box.
The difficulty is that the switches are in a very strange position so I altered mine by changing the position of the display which puts the switches on the back.

I wish you every success.

73,
John.

On 09/01/2013 17:12, F5mpw wrote:
>
> Hello to the list.
>
> I started the kit DIGITAL SWR METER this afternoon. It a pleasure with
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> I have a problem with L1 and L2.
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>
> I try to read the pdf, perhaps I have a problem to translate ;-)
>
> All the best and happy new year!
>
> 73 Philippe F5MPW
>
> [Non-text portions of this message have been removed]
>

>

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Yahoo! Groups Links

[Non-text portions of this message have been removed]

2734. Re: MKARS80 transatlantic qso

Yahoo group: mkars80
Date: 2013-01-11 18:27:43 UTC
From: dd5cf_colin
Topic: 2729 Message: 2734

Happy New Year John, I will listen out for you tonight and tomorrow night, I must remember to set the alarm clock for UTC ;0) Vy 73 Colin DD5CF
--- In mkars80@..., "johncronhelm@..." wrote:
>
> I should be grateful if as a preliminary some of the group could check 3.740mhz. any evening at 2230Z when the Newfoundland and Labrador Net is in operation. Contacts from anywhere are taken after approx. 10 mins., Please let me know if you receive sigs. with your MKARS80 or make a contact. I should be on with my MKARS80.
> Thank you and a very Happy New Year.
> John vo1jcc.
>

2735. Re: MKARS80 transatlantic qso

Yahoo group: mkars80
Date: 2013-01-11 22:58:03 UTC
From: dd5cf_colin
Topic: 2729 Message: 2735

Hi John, nothing heard tonight, are you sure about the time? looking at the Newfoundland and Labrador Evening Traffic Net webpage the time Nov-Mar is 21:30 UTC and May-Oct 22:30 UTC.

I will listen out again tomorrow night at 21:30 and 22:30 UTC.

Vy 73 Colin

--- In mkars80@..., "johncronhelm@..." wrote:
>
> I should be grateful if as a preliminary some of the group could check 3.740mhz. any evening at 2230Z when the Newfoundland and Labrador Net is in operation. Contacts from anywhere are taken after approx. 10 mins., Please let me know if you receive sigs. with your MKARS80 or make a contact. I should be on with my MKARS80.
> Thank you and a very Happy New Year.
> John vo1jcc.
>

2736. Re: MKARS80 transatlantic qso

Yahoo group: mkars80
Date: 2013-01-11 23:28:37 UTC
From: dd5cf_colin
Topic: 2729 Message: 2736

Hi John, I could just about hear you RS 2/2 on 3.789 at 23:20 UTC 11/Jan/13 in QSO with John G4PKP in the group.

Vy 73 Colin

--- In mkars80@yahoogroups.co.uk, "johncronhelm@..." wrote:
>
> I should be grateful if as a preliminary some of the group could check 3.740mhz. any evening at 2230Z when the Newfoundland and Labrador Net is in operation. Contacts from anywhere are taken after approx. 10 mins., Please let me know if you receive sigs. with your MKARS80 or make a contact. I should be on with my MKARS80.
> Thank you and a very Happy New Year.
> John vo1jcc.
>

2737. Re: MKARS80 transatlantic qso

Yahoo group: mkars80
Date: 2013-01-12 12:23:34 UTC
From: johncronhelm@nl.rogers.com
Topic: 2729 Message: 2737

Hi Colin,those times on the website are reversed.Net is always 1900 local 3 1/2 hrs behind Z in winter and 2 1/2 hrs hrs behind Z during Day light savings time.
Hope you will hear us when propagation improves.
Vy 73 John. Vo1jcc.

--- In mkars80@..., "dd5cf_colin" wrote:
>
> Hi John, nothing heard tonight, are you sure about the time? looking at the Newfoundland and Labrador Evening Traffic Net webpage the time Nov-Mar is 21:30 UTC and May-Oct 22:30 UTC.
>
> I will listen out again tomorrow night at 21:30 and 22:30 UTC.
>
> Vy 73 Colin
>
> --- In mkars80@..., "johncronhelm@" wrote:
> >
> > I should be grateful if as a preliminary some of the group could check 3.740mhz. any evening at 2230Z when the Newfoundland and Labrador Net is in operation. Contacts from anywhere are taken after approx. 10 mins., Please let me know if you receive sigs. with your MKARS80 or make a contact. I should be on with my MKARS80.
> > Thank you and a very Happy New Year.
> > John vo1jcc.
> >
>

2738. Problem with digital SWR meter kit

Yahoo group: mkars80
Date: 2013-01-17 22:49:23 UTC
From: spam_balti
Topic: 2738 Message: 2738

Hi

After building the SWR meter I used a Baofeng UV5R and a 50 ohm dummy load to test it on 145.550Mhz. This showed 4W forward power and an SWR of around 1.05:1. I realise the detector board is designed for HF, but I thought I would try a VHF radio as I don't have a HF rig as yet.

Then I put the two boards into the case and noticed the FWD power was now 0W, and the REV power was about 2W, so half the power, in the reverse direction, and the unit would no longer switch on automatically. To get the meter to switch on automatically I had to switch around the dummy load resistor and the RG58 cable.

I took the case apart and had a look at the boards. It appeared as if there might be a short between the GND wire and and an adjacent pin (FWD power?) on the detector PCB (caused by the ground wire being bent to one side). I shortened the exposed wire on the ground lead and resoldered it to the dectector PCB. Once again everything seemed to work fine, showing 4W forward power and an SWR of around 1.05:1.

After putting it back into the case the same symptoms reappeared, 0W FWD power, 2W REV. After removing the boards from the case I could no longer get 4W FWD + 1.05 SWR to appear on the LCD.

I looked through the fault finding section in the manual and measured all the voltages listed on the main PCB. These were measured while using a 13.8V nominal (14V measured), 1.5A PSU:

Q1 voltages were marginally higher than specified, presumably due to the 14V PSU:

Q1 (BC327)
Emitter 13.3V rather than 13V
Base 12.5V rather than 12.3V
Collector 13.3V rather than 13V

There was a discrepancy for the Q2 transistor (BC547), but this seems to be the driver for the piezo transducer, which I have not yet connected, so I assume this is unimportant:
Q2 (BC547)
Emitter 0V
Base 0V
Collector 0.75V rather than 5V

Pin 16 on the PIC showed a constantly changing voltage whenever the meter was in the default display mode, i.e. showing SWR/FWD power/REV power/batt voltage. When in any other display mode this pin is steady at 5V.

Based on this, I am assuming the problem lies on the detector board.

I can't measure any short between the GND, FWD or REV pads.
The two 10nF caps show as 11nF and 13nF measured in-situ.

The two diodes show forward voltage drops of 0.256V and 0.257V, no reverse flow.
The TRX and ANT ports have a resistance of 0.3 ohms between signal and ground, this seems too low, but I notice from the circuit diagram that the inbound TRX signal is connected to ground via T2.

Does anyone have any suggestions of measurements I could make on the detector board (or main board). I have a small DDS signal generator that can output from 0-5Mhz at around 3.75V rms, as well as a multimeter, a 4W HT and 50 ohm dummy load. I have a scope buried at the back of my garage, so I could also fish that out. I should also have a proper function generator in the garage.

I'm a beginner in radio/electronics, so I'm guessing it is an error on my part, maybe I have damaged something through excessive use of soldering iron (I was using unleaded solder for the first time).

Any suggestions gratefully accepted.

Thanks

John
M6JKZ

2739. Re: [mkars80] Problem with digital SWR meter kit

Yahoo group: mkars80
Date: 2013-01-17 23:11:36 UTC
From: steve@radio-kits.co.uk
Topic: 2739 Message: 2739

John, it appears to bean intermittent problem most likely on the detector board, check that the enameled wire is soldered ok and that the copper has "tinned".
When transmitting into the SWR meter do you measure much on fwd and rev connections? You can check correct operation of the micro board by connecting Tp3v9 to fwd and rev....you should get a reading of 21 W if I remember right...its in the manual.

Steve G6ALU

----- Reply message -----
From: "spam_balti" <shopping@...>
To: <mkars80@...>
Subject: [mkars80] Problem with digital SWR meter kit
Date: Thu, Jan 17, 2013 22:49

Hi

After building the SWR meter I used a Baofeng UV5R and a 50 ohm dummy load to test it on 145.550Mhz. This showed 4W forward power and an SWR of around 1.05:1. I realise the detector board is designed for HF, but I thought I would try a VHF radio as I don't have a HF rig as yet.

Then I put the two boards into the case and noticed the FWD power was now 0W, and the REV power was about 2W, so half the power, in the reverse direction, and the unit would no longer switch on automatically. To get the meter to switch on automatically I had to switch around the dummy load resistor and the RG58 cable.

I took the case apart and had a look at the boards. It appeared as if there might be a short between the GND wire and and an adjacent pin (FWD power?) on the detector PCB (caused by the ground wire being bent to one side). I shortened the exposed wire on the ground lead and resoldered it to the dectector PCB. Once again everything seemed to work fine, showing 4W forward power and an SWR of around 1.05:1.

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Collector 0.75V rather than 5V

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I'm a beginner in radio/electronics, so I'm guessing it is an error on my part, maybe I have damaged something through excessive use of soldering iron (I was using unleaded solder for the first time).

Any suggestions gratefully accepted.

Thanks

John
M6JKZ

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2740. Re: Problem with digital SWR meter kit

Yahoo group: mkars80
Date: 2013-01-19 22:28:26 UTC
From: spam_balti
Topic: 2738 Message: 2740

Hi Steve

Thanks for the reply.

The enameled leads had been sanded and tinned, and so I tried resoldering them all as per your suggestion, and this appears to have fixed the problem on the detector board. I measured 2V FWD and 0.1V REV on the pads when keying the 4W HT into a 50 ohm dummy load. I originally had an approx. SWR of 1.05:1, so this looks correct.

On the main PCB, after calibration using TP3V9, I originally had 23.1W showing on the LCD for forward and reverse power with the FWD & REV input pads both connected to TP3V9. Unfortunately I think I have managed to break something with my prodding. At one point to test having different voltages applied to the main PCB FWD and REV pads, I sent the board Vcc (14V) to FWD, and TP3V9 (3.9V) to REV. This registered ~120W forward power on the LCD, but possibly this resulted in a fried U1 (Tl431CLP) and U3 (LM358AN). There are now 3 incorrect voltages on the PIC, but from looking at the source code, these are all programmed as input pins, so nothing wrong with the uC itself:

pin 17 RA0 shows 0.7V instead of 1.3V
pin 18 RA1 shows 0.7V instead of 1.3V
pin 1 RA2 is correct.
pin 2 RA3 showing 1.8V instead of 3.9V (TP3V9 ref voltage)

Pin 2/RA3 is driven from U1 (TL431CLP). I tried resoldering U1, and its neighbours R10, R14 and R15, but this made no difference, so possibly I have broken U1. It's pin voltages are 1.8V, 0V and 1.1V. I have ordered a replacement, so will try substituting this when it arrives.

Pins 17/18/RA0/RA1 are fed via U3 (LM358AN). The Vcc (13.2V) and GND are the only correct voltages on this IC, everything else is approx. one half of the correct values, so I have also ordered a replacement to try. I used a DIL socket for this, so it will be quick to swap out.

I've noticed I seem to have a TL431CTI, but the user instructions list a TL431CLP (which is what I ordered). I'm assuming the CLP version will work just as well as the CTI version. Let me know if this is not the case.

John
M6JKZ

--- In mkars80@..., "steve@..." wrote:
>
> John, it appears to bean intermittent problem most likely on the detector board, check that the enameled wire is soldered ok and that the copper has "tinned".
> When transmitting into the SWR meter do you measure much on fwd and rev connections? You can check correct operation of the micro board by connecting Tp3v9 to fwd and rev....you should get a reading of 21 W if I remember right...its in the manual.

>
> Steve G6ALU
>
> ----- Reply message -----
> From: "spam_balti"
> To:
> Subject: [mkars80] Problem with digital SWR meter kit
> Date: Thu, Jan 17, 2013 22:49
>
>
> Hi
>
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>
> There was a discrepancy for the Q2 transistor (BC547), but this seems to be the driver for the piezo transducer, which I have not yet connected, so I assume this is unimportant:
> Q2 (BC547)
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> Base 0V
> Collector 0.75V rather than 5V
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> Pin 16 on the PIC showed a constantly changing voltage whenever the meter was in the default display mode, i.e. showing SWR/FWD power/REV power/batt voltage. When in any other display mode this pin is steady at 5V.
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> The two diodes show forward voltage drops of 0.256V and 0.257V, no reverse flow.
> The TRX and ANT ports have a resistance of 0.3 ohms between signal and ground, this seems too low, but I notice from the circuit diagram that the inbound TRX signal is connected to ground via T2.
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> Does anyone have any suggestions of measurements I could make on the detector board (or main board). I have a small DDS signal generator that can output from 0-5Mhz at around 3.75V rms, as well as a multimeter, a 4W HT and 50 ohm dummy load. I have a scope buried at the back of my garage, so I could also fish that out. I should also have a proper function generator in the garage.
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> I'm a beginner in radio/electronics, so I'm guessing it is an error on my part, maybe I have damaged something through excessive use of soldering iron (I was using unleaded solder for the first time).
>
> Any suggestions gratefully accepted.
>
> Thanks
>
> John
> M6JKZ
>
>
>
>
> ------------------------------------
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> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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2741. Tuning 3.5 to 4.0 MHz with the MKARS80

Yahoo group: mkars80
Date: 2013-01-22 15:49:35 UTC
From: k1trb
Topic: 2741 Message: 2741

Hi

The following mods are easily reversible and address the US 80m band with the MKARS80.

The rig is designed to tune 300KHz. I could move mine up to about 3.94MHz but not higher. So here are some simple reversible mods. The capacitors should be C0G (NP0) small ceramics.

1. Reaching 4.0MHz.

Use a 10pF ceramic disk. On the back side of the MKARS80 board, tack this capacitor across either C45 or C38. Use short leads and trim off the excess.

Now C38 will trim the band to 4.0MHz. But it will still only be 300KHz wide.

2. Getting the full 500KHz.

Use a 33pf disk or 0802 smd ceramic capacitor. On the back side of the board, tack this capacitor across C47. Now the frequency span should be about 500KHz. Use C38 to put this band in the right place: 3.5-4.0MHz.

Use short leads and trim off the excess if a disk is used. An 0802 smd part will just fit.

regards
tom
k1trb
(formerly w0lwa)
.
By the way, does anyone know how I can change my login on yahoo from w0lwa to k1trb without creating a new login?

2742. Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 16:54:17 UTC
From: k1trb
Topic: 2742 Message: 2742

I need advice.

In implementing the varactor vfo tuning mod my vfo has a
terrible buzz. (I use a bb112.)

This vfo is a bjt series tuned Colpitts. I also built
a 40m Hartley fet vfo straight out of emrfd which I tried to
tune with a power diode used as a varactor. It too buzzes.

I have successfully added very small trim capacitors (like the
bandspread and Huff & Puff stabilizers on the MKARS80) to
vfo's. But my "broadband" tuning efforts have been
buzzing busts.

If I trade the varactor for a capacitor, the vfo sounds
just fine.

==> Some theory:

1. Diode rectification.

The PTP voltage on a vfo inductor can be quite large.
This voltage adds to the dc tuning voltage of the varactor.
Thus, the voltage on the varactor can go negative during
the cycle so the diode will rectify.

This issue is discussed on the web (e.g. on qrpops).

2. Phase modulation

I cannot find this issue mentioned or discussed on the web.

The actual voltage on the varactor is the sum of the rf plus
the dc tuning voltage. Thus the junction capacitance of the
varactor will go up and down right along with the generated
sine wave.

If the rf voltage is very small (as in a varactor trimmer
or a receiving rf preamp) this effect should be of no
consequence.

But for broadband tuning of a vfo it might be an issue.

The capacitance does not respond immediately, so there is
a phase delay. Further, the phase effect is limited.
For example (math geek stuff) it might look like:

A sin(w t + B sin(w t + c))

The second term is the varying phase shift. By changing
B and c it is possible to make this wave look like the
one I see on my oscilloscope at the vfo test point.

But I have no idea how this wave results in a buzz around
100Hz.

==> Some practice.

My circuit is a capacity Ct connected from the C45 - L5 junction
to the varactor Cv which then connects to ground.

The varactor Cv is biased from the 8v regulated supply
shunted by .1uF through an impedance Z. (The voltage is
set by a resistive divider and a 10 turn pot.)

I have tried large (470pF) Ct which needs high DC on the
varactor leading to low Cv.

I have tried small (82pF) Ct which needs low DC on the
varactor leading to high Cv.

I have tried resistors for Z (ranging from 1K to 1M).
I have tried inductors for Z (ranging from 150mh to 300uH).
(The 300uH inductor turned the vfo into a 470KHz oscillator!
But the 300uH Z did have very high impedance at 6MHz.)

I tried different bb112's.

They all buzz.

None of these changes alter the buzzing frequency enough to
be noticeable. So the changing parts are not part of determining
the buzz frequency or amplitude.

If I replace the bb112 by the polyvaricon, the vfo works nicely.

(This buzz can be heard on my Icom 718
at the appropriate 6+ MHz frequency of the vfo. It also
causes MKARS80 signals to hopelessly gargle. With a
1KHz band limit on my scope I can see an am modulation
envelope at the vfo test point of about the right frequency.)

==> An Aside:

I have no idea why a 68mH choke works for PA0RCL. My VNA shows
these chokes to have low impedance at 6MHz.

The self resonant frequency of a 68mH choke (according to data
sheets) is about 80KHz. About 80KHz the reactance goes capacitive
for a bit. But at higher f, Z is a lottery. At higher frequencies
the ferrite is changing properties rapidly with increasing frequency
and probably is about like air at 6MHz.

So, why does this work for him?

Yeah. I need help.

thanks
tom
.
k1trb

2743. Mixer mods

Yahoo group: mkars80
Date: 2013-01-22 17:01:08 UTC
From: k1trb
Topic: 2743 Message: 2743

Here are two mods I did that might improve performance.

Easy route:

Using methods described in the ARRL Handbook, match
4 diodes from the total batch. Then match 2 diodes
from the batch.

Use these matched diodes in the two mixers.

Harder route:

Use matched 1N5179 Schottky diodes in the two mixers.

Matching diodes should improve mixer balance. Using
Schottky diodes should lower the noise level and make
the receiver more sensitive.

I haven't measured the results of these mods. They are
just sensible.

regards
tom
.
k1trb

2744. Re: [mkars80] Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 17:16:01 UTC
From: Ken Greenough
Topic: 2742 Message: 2744

Hello Tom,
The RF from the osc' could be getting back
through the supply leads into your PSU and
the PSU diodes mixing it with your AC supply
frequency [a problem often noticed on DC
receivers]. Have you tried a battery supply as
a quick check ? . Regarding the VFO RF being
rectified by the varicap.. a dual diode can solve this
problem, remembering to provide a DC path for both
diodes.
73 Ken g8beq

[Non-text portions of this message have been removed]

2745. Re: Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 17:21:31 UTC
From: panzerbeeb
Topic: 2742 Message: 2745

OK Tom, might be a daft question, how long is the wire from the variable resistor to the varicap? If it is more tham 1 inch then you need screened leads feeding the 8v to the v resistor and from the wiper, otherwise anything picked up on the wiring will affect the tuning volts. I used 2x MVAM109 back to back, this removes the effects of RF volts on the doides. I use a 470Kohm between the v resistor and the diode cathode junctions.

73 Mike.

--- In mkars80@..., "k1trb" wrote:
>
> I need advice.
>
> In implementing the varactor vfo tuning mod my vfo has a
> terrible buzz. (I use a bb112.)
>
> This vfo is a bjt series tuned Colpitts. I also built
> a 40m Hartley fet vfo straight out of emrfd which I tried to
> tune with a power diode used as a varactor. It too buzzes.
>
> I have successfully added very small trim capacitors (like the
> bandspread and Huff & Puff stabilizers on the MKARS80) to
> vfo's. But my "broadband" tuning efforts have been
> buzzing busts.
>
> If I trade the varactor for a capacitor, the vfo sounds
> just fine.
>
> ==> Some theory:
>
> 1. Diode rectification.
>
> The PTP voltage on a vfo inductor can be quite large.
> This voltage adds to the dc tuning voltage of the varactor.
> Thus, the voltage on the varactor can go negative during
> the cycle so the diode will rectify.
>
> This issue is discussed on the web (e.g. on qrpops).
>
> 2. Phase modulation
>
> I cannot find this issue mentioned or discussed on the web.
>
> The actual voltage on the varactor is the sum of the rf plus
> the dc tuning voltage. Thus the junction capacitance of the
> varactor will go up and down right along with the generated

> sine wave.
>
> If the rf voltage is very small (as in a varactor trimmer
> or a receiving rf preamp) this effect should be of no
> consequence.
>
> But for broadband tuning of a vfo it might be an issue.
>
> The capacitance does not respond immediately, so there is
> a phase delay. Further, the phase effect is limited.
> For example (math geek stuff) it might look like:
>
> A sin(w t + B sin(w t + c))
>
> The second term is the varying phase shift. By changing
> B and c it is possible to make this wave look like the
> one I see on my oscilloscope at the vfo test point.
>
> But I have no idea how this wave results in a buzz around
> 100Hz.
>
> ==> Some practice.
>
> My circuit is a capacity Ct connected from the C45 - L5 junction
> to the varactor Cv which then connects to ground.
>
> The varactor Cv is biased from the 8v regulated supply
> shunted by .1uF through an impedance Z. (The voltage is
> set by a resistive divider and a 10 turn pot.)
>
> I have tried large (470pF) Ct which needs high DC on the
> varactor leading to low Cv.
>
> I have tried small (82pF) Ct which needs low DC on the
> varactor leading to high Cv.
>
> I have tried resistors for Z (ranging from 1K to 1M).
> I have tried inductors for Z (ranging from 150mh to 300uH).
> (The 300uH inductor turned the vfo into a 470KHz oscillator!
> But the 300uH Z did have very high impedance at 6MHz.)
>
> I tried different bb112's.
>
> They all buzz.
>
> None of these changes alter the buzzing frequency enough to
> be noticeable. So the changing parts are not part of determining
> the buzz frequency or amplitude.
>
> If I replace the bb112 by the polyvaricon, the vfo works nicely.

>
> (This buzz can be heard on my Icom 718
> at the appropriate 6+ MHz frequency of the vfo. It also
> causes MKARS80 signals to hopelessly gargle. With a
> 1KHz band limit on my scope I can see an am modulation
> envelope at the vfo test point of about the right frequency.)
>
> ==> An Aside:
>
> I have no idea why a 68mH choke works for PA0RCL. My VNA shows
> these chokes to have low impedance at 6MHz.
>
> The self resonant frequency of a 68mH choke (according to data
> sheets) is about 80KHz. About 80KHz the reactance goes capacitive
> for a bit. But at higher f, Z is a lottery. At higher frequencies
> the ferrite is changing properties rapidly with increasing frequency
> and probably is about like air at 6MHz.
>
> So, why does this work for him?
>
> Yeah. I need help.
>
> thanks
> tom
> .
> k1trb
>

2746. Crystal Oscillator conflict

Yahoo group: mkars80
Date: 2013-01-22 17:27:47 UTC
From: k1trb
Topic: 2746 Message: 2746

The BFO (10MHz oscillator) performs two conflicting jobs.

1. Set the frequency standard for the frequency display.
2. Set the injection frequency of the carrier on the
crystal filter passband.

Crystal filters are sensitive to crystal parameters and to
the value of coupling capacitors. The crystals and capacitors
supplied in the MKARS80 are standard values and thus have
variations in exact value.

Go on the web and listen to various MKARS80 videos. You will
hear a variation in the audio response. This is because each
MKARS80 has it's own unique crystal filter characteristic and
all BFO's are set at 10MHz.

This can be improved by positioning the BFO at a "good point"
on the crystal filter slope. But then, of course, the frequency
readout will be wrong (but you'll sound better).

==> optional difficult improvement

I modeled the filter and did not like what I saw. The passband
is too narrow and it is a hump. So I measured my crystals,
used the lowest Q crystal in the BFO, and redesigned the filter.
Since each filter is uniquely determined by the crystals used,
my values are not important. Wes Hayward w7zoi explains design
in QST and QEX articles and in emrfd.

When the BFO is correctly set on the passband of the filter
it is no longer right on 10MHz. It's probably low. It is
possible to move the filter up by tuning it, but not worth the
effort.

==> An easy improvement

Now you can improve your audio by setting the BFO at the right
injection point of the filter characteristic. Have a friend
listen to you while you talk and adjust the BFO frequency.
Or you might try just listening, tweaking the BFO, and retuning ssb
conversations to get the best audio.

Ideally, 300Hz should be about 6db down. With the MKARS80
passband this is probably not acceptable, so "setting by
listening" will work best.

When you're finished, your frequency display will be off a little
bit. You can live with this knowing the amount of error, or

you can reprogram the PIC to give the correct value. The reprogramming would just add or subtract a few nops in the frequency counting code loop of the PIC.

regards
tom
.
k1trb

2747. Re: Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 17:38:55 UTC
From: k1trb
Topic: 2742 Message: 2747

Thanks Ken

The Z plus .1uf filter to the varactor has very
short leads. The MKARS80 is run from a 12v battery.
The dc feed to the varactor filter has been modified
and measured in many configurations. I can find
no rf on this lead and varying things makes no
difference. I've tried additional filtering and
shielding on the dc lead. No difference.

This buzz also is present in an entirely different
vfo layout and design.

Amazingly, in both designs the buzz frequency is about
the same.

I seem to be snakebit.

thanks
tom
.
k1trb

--- In mkars80@..., "Ken Greenough" wrote:
>
> Hello Tom,
> The RF from the osc' could be getting back
> through the supply leads into your PSU and
> the PSU diodes mixing it with your AC supply
> frequency [a problem often noticed on DC
> receivers]. Have you tried a battery supply as
> a quick check ? . Regarding the VFO RF being
> rectified by the varicap.. a dual diode can solve this
> problem, remembering to provide a DC path for both
> diodes.
> 73 Ken g8beq
>
> [Non-text portions of this message have been removed]
>

2748. Re: Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 17:49:18 UTC
From: k1trb
Topic: 2742 Message: 2748

Thanks Mike

The MKARS80 is run from a 12v battery. I have varied
the dc feed in every way I know how including additional
bypassing. I can measure no rf on this lead. Moving
it all around makes no difference.

I have not tried back to back diodes yet. This approach
is supposed to address the diode rectification issue.
It is worth a try since the phase modulation issue might
be addressed somewhat. At least it will determine if
phase modulation is causing the problem.

(Since the capacitance change follows an exponential
voltage curve, the "compensating change" of one diode
is not the opposite of the "change" on the other diode.
But there is some cancellation.)

thanks
tom
.
k1trb

--- In mkars80@..., "panzerbeeb" wrote:
>
> OK Tom, might be a daft question, how long is the wire from the variable resistor to the varicap? If it is more tham 1 inch then you need screened leads feeding the 8v to the v resistor and from the wiper, otherwise anything picked up on the wiring will affect the tuning volts. I used 2x MVAM109 back to back, this removes the effects of RF volts on the doides. I use a 470Kohm between the v resistor and the diode cathode junctions.
> >
> > 73 Mike.
> >
> > --- In mkars80@..., "k1trb" wrote:
> > >
> > > I need advice.
> > >
> > > In implementing the varactor vfo tuning mod my vfo has a
> > > terrible buzz. (I use a bb112.)
> > >
> > > This vfo is a bjt series tuned Colpitts. I also built
> > > a 40m Hartley fet vfo straight out of emrfd which I tried to
> > > tune with a power diode used as a varactor. It too buzzes.
> > >
> > > I have successfully added very small trim capacitors (like the
> > > bandspread and Huff & Puff stabilizers on the MKARS80) to

> > vfo's. But my "broadband" tuning efforts have been
> > buzzing busts.
> >
> > If I trade the varactor for a capacitor, the vfo sounds
> > just fine.
> >
> > ==> Some theory:
> >
> > 1. Diode rectification.
> >
> > The PTP voltage on a vfo inductor can be quite large.
> > This voltage adds to the dc tuning voltage of the varactor.
> > Thus, the voltage on the varactor can go negative during
> > the cycle so the diode will rectify.
> >
> > This issue is discussed on the web (e.g. on qrpops).
> >
> > 2. Phase modulation
> >
> > I cannot find this issue mentioned or discussed on the web.
> >
> > The actual voltage on the varactor is the sum of the rf plus
> > the dc tuning voltage. Thus the junction capacitance of the
> > varactor will go up and down right along with the generated
> > sine wave.
> >
> > If the rf voltage is very small (as in a varactor trimmer
> > or a receiving rf preamp) this effect should be of no
> > consequence.
> >
> > But for broadband tuning of a vfo it might be an issue.
> >
> > The capacitance does not respond immediately, so there is
> > a phase delay. Further, the phase effect is limited.
> > For example (math geek stuff) it might look like:
> >
> > A sin(w t + B sin(w t + c))
> >
> > The second term is the varying phase shift. By changing
> > B and c it is possible to make this wave look like the
> > one I see on my oscilloscope at the vfo test point.
> >
> > But I have no idea how this wave results in a buzz around
> > 100Hz.
> >
> > ==> Some practice.
> >
> > My circuit is a capacity Ct connected from the C45 - L5 junction
> > to the varactor Cv which then connects to ground.
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> > The varactor Cv is biased from the 8v regulated supply
> > shunted by .1uF through an impedance Z. (The voltage is
> > set by a resistive divider and a 10 turn pot.)
> >
> > I have tried large (470pF) Ct which needs high DC on the
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> > causes MKARS80 signals to hopelessly gargle. With a
> > 1KHz band limit on my scope I can see an am modulation
> > envelope at the vfo test point of about the right frequency.)
> >
> > ==> An Aside:
> >
> > I have no idea why a 68mH choke works for PA0RCL. My VNA shows
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> >
> > The self resonant frequency of a 68mH choke (according to data
> > sheets) is about 80KHz. About 80KHz the reactance goes capacitive
> > for a bit. But at higher f, Z is a lottery. At higher frequencies
> > the ferrite is changing properties rapidly with increasing frequency
> > and probably is about like air at 6MHz.
> >
> > So, why does this work for him?
> >
> > Yeah. I need help.
> >
> > thanks
> > tom
> > .
> > k1trb

> >
>

2749. Re: [mkars80] Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 20:55:27 UTC
From: Steve Drury
Topic: 2742 Message: 2749

Tom,

Not sure whats happening here but if you can see a strange waveform on
the scope are you sure the oscillator isn't "squegging"?

Steve G6ALU

On 22/01/2013 16:54, k1trb wrote:
> I need advice.
>
> In implementing the varactor vfo tuning mod my vfo has a
> terrible buzz. (I use a bb112.)
>
> This vfo is a bjt series tuned Colpitts. I also built
> a 40m Hartley fet vfo straight out of emrfd which I tried to
> tune with a power diode used as a varactor. It too buzzes.
>
> I have successfully added very small trim capacitors (like the
> bandspread and Huff & Puff stabilizers on the MKARS80) to
> vfo's. But my "broadband" tuning efforts have been
> buzzing busts.
>
> If I trade the varactor for a capacitor, the vfo sounds
> just fine.
>
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> 1. Diode rectification.
>
> The PTP voltage on a vfo inductor can be quite large.
> This voltage adds to the dc tuning voltage of the varactor.
> Thus, the voltage on the varactor can go negative during
> the cycle so the diode will rectify.
>
> This issue is discussed on the web (e.g. on qrpops).
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> I cannot find this issue mentioned or discussed on the web.
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> The actual voltage on the varactor is the sum of the rf plus
> the dc tuning voltage. Thus the junction capacitance of the
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> sine wave.
>
> If the rf voltage is very small (as in a varactor trimmer

> or a receiving rf preamp) this effect should be of no
> consequence.
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> But for broadband tuning of a vfo it might be an issue.
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> The capacitance does not respond immediately, so there is
> a phase delay. Further, the phase effect is limited.
> For example (math geek stuff) it might look like:
>
> A sin(w t + B sin(w t + c))
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> The second term is the varying phase shift. By changing
> B and c it is possible to make this wave look like the
> one I see on my oscilloscope at the vfo test point.
>
> But I have no idea how this wave results in a buzz around
> 100Hz.
>
> ==> Some practice.
>
> My circuit is a capacity Ct connected from the C45 - L5 junction
> to the varactor Cv which then connects to ground.
>
> The varactor Cv is biased from the 8v regulated supply
> shunted by .1uF through an impedance Z. (The voltage is
> set by a resistive divider and a 10 turn pot.)
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> I have tried large (470pF) Ct which needs high DC on the
> varactor leading to low Cv.
>
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> varactor leading to high Cv.
>
> I have tried resistors for Z (ranging from 1K to 1M).
> I have tried inductors for Z (ranging from 150mh to 300uH).
> (The 300uH inductor turned the vfo into a 470KHz oscillator!
> But the 300uH Z did have very high impedance at 6MHz.)
>
> I tried different bb112's.
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> They all buzz.
>
> None of these changes alter the buzzing frequency enough to
> be noticeable. So the changing parts are not part of determining
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> at the appropriate 6+ MHz frequency of the vfo. It also

> causes MKARS80 signals to hopelessly gargle. With a
> 1KHz band limit on my scope I can see an am modulation
> envelope at the vfo test point of about the right frequency.)
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> these chokes to have low impedance at 6MHz.
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> The self resonant frequency of a 68mH choke (according to data
> sheets) is about 80KHz. About 80KHz the reactance goes capacitive
> for a bit. But at higher f, Z is a lottery. At higher frequencies
> the ferrite is changing properties rapidly with increasing frequency
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> So, why does this work for him?
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> Yeah. I need help.
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> thanks
> tom
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> k1trb
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> Checked by AVG - www.avg.com
> Version: 2013.0.2890 / Virus Database: 2639/6048 - Release Date: 01/21/13
>
>

2750. Re: [mkars80] Mixer mods

Yahoo group: mkars80
Date: 2013-01-22 20:57:51 UTC
From: Steve Drury
Topic: 2743 Message: 2750

Tom,

Not sure its worth while changing the diodes for a different type, it
may reduce the loss but this isn't a problem on 80M - all diodes come
from the same reel so they are reasonably well matched to start with but
won't casue any problems if you want to test and sort them for the best
match.

Steve G6ALU

On 22/01/2013 17:01, k1trb wrote:
> Here are two mods I did that might improve performance.
>
> Easy route:
>
> Using methods described in the ARRL Handbook, match
> 4 diodes from the total batch. Then match 2 diodes
> from the batch.
>
> Use these matched diodes in the two mixers.
>
> Harder route:
>
> Use matched 1N5179 Schottky diodes in the two mixers.
>
> Matching diodes should improve mixer balance. Using
> Schottky diodes should lower the noise level and make
> the receiver more sensitive.
>
> I haven't measured the results of these mods. They are
> just sensible.
>
> regards
> tom
> .
> k1trb
>
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>
>

2751. Re: [mkars80] Crystal Oscillator conflict

Yahoo group: mkars80
Date: 2013-01-22 21:10:58 UTC
From: Steve Drury
Topic: 2746 Message: 2751

Tom,

I don't believe the two jobs are conflicting, why have two oscillators when one will do? Remember that the MKARS80 is a single board design with no interstage screening, if you have another oscilator for the frequency counter not only do you have additional cost but also very likely introduce "birdies" somewhere in band also another trimmer to adjust.

You have optimised the crystal filter for receive, have you had any QSOs in this state? You may find your transmission muffled; with the BITEX based transceiver the impedance seen by the filter changes between transmit and receive so the filter design is a compromise solution.

In the last 4 years about 1500 MKARS80 have been sold, I guess about 2/3 have been on the air mainly with good reports... the MKARS80 was designed as easy to build and low cost transceiver making changes like matched crystals, multiple oscillators and varicap tuning would have defeated the design objective.

I ask everyone to build the radio as intended BEFORE making any changes then they know at least it worked OK in the first place! Then go ahead and make changes (improvements?), that's the way you learn.

If you want to modify the firmware the code is on my website, I know that some folk enjoy personalising their radio with a callsign or different display format.

Have fun,

Steve G6ALU

On 22/01/2013 17:27, k1trb wrote:
> The BFO (10MHz oscillator) performs two conflicting jobs.
>
> 1. Set the frequency standard for the frequency display.
> 2. Set the injection frequency of the carrier on the
> crystal filter passband.
>
> Crystal filters are sensitive to crystal parameters and to
> the value of coupling capacitors. The crystals and capacitors
> supplied in the MKARS80 are standard values and thus have
> variations in exact value.
>
> Go on the web and listen to various MKARS80 videos. You will
> hear a variation in the audio response. This is because each
> MKARS80 has it's own unique crystal filter characteristic and
> all BFO's are set at 10MHz.

>
> This can be improved by positioning the BFO at a "good point"
> on the crystal filter slope. But then, of course, the frequency
> readout will be wrong (but you'll sound better).
>
> ==> optional difficult improvement
>
> I modeled the filter and did not like what I saw. The passband
> is too narrow and it is a hump. So I measured my crystals,
> used the lowest Q crystal in the BFO, and redesigned the filter.
> Since each filter is uniquely determined by the crystals used,
> my values are not important. Wes Hayward w7zoi explains design
> in QST and QEX articles and in emrfd.
>
> When the BFO is correctly set on the passband of the filter
> it is no longer right on 10MHz. It's probably low. It is
> possible to move the filter up by tuning it, but not worth the
> effort.
>
> ==> An easy improvement
>
> Now you can improve your audio by setting the BFO at the right
> injection point of the filter characteristic. Have a friend
> listen to you while you talk and adjust the BFO frequency.
> Or you might try just listening, tweaking the BFO, and retuning ssb
> conversations to get the best audio.
>
> Ideally, 300Hz should be about 6db down. With the MKARS80
> passband this is probably not acceptable, so "setting by
> listening" will work best.
>
> When you're finished, your frequency display will be off a little
> bit. You can live with this knowing the amount of error, or
> you can reprogram the PIC to give the correct value. The
> reprogramming would just add or subtract a few nops in the
> frequency counting code loop of the PIC.
>
> regards
> tom
> .
> k1trb
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> No virus found in this message.
> Checked by AVG - www.avg.com
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>
>

2752. Re: Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 21:24:37 UTC
From: k1trb
Topic: 2742 Message: 2752

Steve

Thanks for your comment.

After Ken and Mike's replies it dawned on me that the
oscillator might be squegging. If so, I can't seem to
find a scope setting to show me this. It certainly
sounds like squegging. The MKARS80 audio sounds like it is
gated at 30 to 60Hz. I'm not sure I know how to trigger
my scope to see it. Would a diode probe show it?

I don't know what timing cicuits might allow this.
Squegging is supposed to be caused when two timing
circuits are very close. (Two bypass loops resonant
at frequencies differing at the squegging rate.)

Leads around the varactor are very short. Putting
the polyvaricon in place of the varactor solves the
problem. (No other changes.)

Just now I put the varactor on a separate battery and
that makes no difference.

The squegging frequency is not affected by:
1. the dc bias circuit to the varactor.
2. the blocking capacitor to the varactor.
3. the voltage on the varactor diode.

Hmmm.

This is worth tracking down since, as I said, it happens
in a vfo of completely different design.

I thought squegging was from the age of vacuum tubes.

thanks
tom
.

--- In mkars80@..., Steve Drury wrote:
>
> Tom,
>
> Not sure whats happening here but if you can see a strange waveform on
> the scope are you sure the oscillator isn't "squegging"?
>
> Steve G6ALU
>

> On 22/01/2013 16:54, k1trb wrote:
> > I need advice.
> >
> > In implementing the varactor vfo tuning mod my vfo has a
> > terrible buzz. (I use a bb112.)
> >
> > This vfo is a bjt series tuned Colpitts. I also built
> > a 40m Hartley fet vfo straight out of emrfd which I tried to
> > tune with a power diode used as a varactor. It too buzzes.
> >
> > I have successfully added very small trim capacitors (like the
> > bandspread and Huff & Puff stabilizers on the MKARS80) to
> > vfo's. But my "broadband" tuning efforts have been
> > buzzing busts.
> >
> > If I trade the varactor for a capacitor, the vfo sounds
> > just fine.
> >
> > ==> Some theory:
> >
> > 1. Diode rectification.
> >
> > The PTP voltage on a vfo inductor can be quite large.
> > This voltage adds to the dc tuning voltage of the varactor.
> > Thus, the voltage on the varactor can go negative during
> > the cycle so the diode will rectify.
> >
> > This issue is discussed on the web (e.g. on qrpops).
> >
> > 2. Phase modulation
> >
> > I cannot find this issue mentioned or discussed on the web.
> >
> > The actual voltage on the varactor is the sum of the rf plus
> > the dc tuning voltage. Thus the junction capacitance of the
> > varactor will go up and down right along with the generated
> > sine wave.
> >
> > If the rf voltage is very small (as in a varactor trimmer
> > or a receiving rf preamp) this effect should be of no
> > consequence.
> >
> > But for broadband tuning of a vfo it might be an issue.
> >
> > The capacitance does not respond immediately, so there is
> > a phase delay. Further, the phase effect is limited.
> > For example (math geek stuff) it might look like:
> >
> > A sin(w t + B sin(w t + c))
> >

> > The second term is the varying phase shift. By changing
> > B and c it is possible to make this wave look like the
> > one I see on my oscilloscope at the vfo test point.
> >
> > But I have no idea how this wave results in a buzz around
> > 100Hz.
> >
> > ==> Some practice.
> >
> > My circuit is a capacity Ct connected from the C45 - L5 junction
> > to the varactor Cv which then connects to ground.
> >
> > The varactor Cv is biased from the 8v regulated supply
> > shunted by .1uF through an impedance Z. (The voltage is
> > set by a resistive divider and a 10 turn pot.)
> >
> > I have tried large (470pF) Ct which needs high DC on the
> > varactor leading to low Cv.
> >
> > I have tried small (82pF) Ct which needs low DC on the
> > varactor leading to high Cv.
> >
> > I have tried resistors for Z (ranging from 1K to 1M).
> > I have tried inductors for Z (ranging from 150mh to 300uH).
> > (The 300uH inductor turned the vfo into a 470KHz oscillator!
> > But the 300uH Z did have very high impedance at 6MHz.)
> >
> > I tried different bb112's.
> >
> > They all buzz.
> >
> > None of these changes alter the buzzing frequency enough to
> > be noticeable. So the changing parts are not part of determining
> > the buzz frequency or amplitude.
> >
> > If I replace the bb112 by the polyvaricon, the vfo works nicely.
> >
> > (This buzz can be heard on my Icom 718
> > at the appropriate 6+ MHz frequency of the vfo. It also
> > causes MKARS80 signals to hopelessly gargle. With a
> > 1KHz band limit on my scope I can see an am modulation
> > envelope at the vfo test point of about the right frequency.)
> >
> > ==> An Aside:
> >
> > I have no idea why a 68mH choke works for PA0RCL. My VNA shows
> > these chokes to have low impedance at 6MHz.
> >
> > The self resonant frequency of a 68mH choke (according to data
> > sheets) is about 80KHz. About 80KHz the reactance goes capacitive

> > for a bit. But at higher f, Z is a lottery. At higher frequencies
> > the ferrite is changing properties rapidly with increasing frequency
> > and probably is about like air at 6MHz.
> >
> > So, why does this work for him?
> >
> > Yeah. I need help.
> >
> > thanks
> > tom
> > .
> > k1trb
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>

2753. Re: Mixer mods

Yahoo group: mkars80
Date: 2013-01-22 21:30:36 UTC
From: k1trb
Topic: 2743 Message: 2753

Steve

Thanks for your comments.

I figured it wouldn't make a lot of difference, but it was
an easy mod and allowed me to test out some new diode
matching techniques I've evolved.

I'm not sure I agree on matching the 1N4148's. Even
with diodes from the same batch, they checked out with
noticeable differences. Matching will improve balance
in the mixers.

thanks
tom
.

--- In mkars80@..., Steve Drury wrote:
>
> Tom,
>
> Not sure its worth while changing the diodes for a different type, it
> may reduce the loss but this isn't a problem on 80M - all diodes come
> from the same reel so they are reasonably well matched to start with but
> won't casue any problems if you want to test and sort them for the best
> match.
>
> Steve G6ALU
>
>

2754. Re: [mkars80] Re: Mixer mods

Yahoo group: mkars80
Date: 2013-01-22 21:35:56 UTC
From: jaevans@...
Topic: 2743 Message: 2754

Tom,

I'm interested in learning about diode matching techniques. Do you have an online reference for a newbie? I saw the handbook referenced, but I suspect that may be the RSGB handbook which I don't have.

73 - john - N0HJ

> Steve
>
> Thanks for your comments.
>
> I figured it wouldn't make a lot of difference, but it was
> an easy mod and allowed me to test out some new diode
> matching techniques I've evolved.
>
> I'm not sure I agree on matching the 1N4148's. Even
> with diodes from the same batch, they checked out with
> noticeable differences. Matching will improve balance
> in the mixers.
>
> thanks
> tom
> ..

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http://www.endymion.com/products/mailman/

2755. Re: Crystal Oscillator conflict

Yahoo group: mkars80
Date: 2013-01-22 21:46:32 UTC
From: k1trb
Topic: 2746 Message: 2755

Steve

Thanks for your comments.

I view what I am doing as tweaks. I certainly would not
recommend changing your design.

As "design under constraint" the MKARS80 is an engineering
marvel.

Yes, I have had before and after qso's on my filter mod.
The before mod received comments about "pinched audio"
(heavy on the highs). The after mod were comments on
how nice it sounded.

My mods cannot possibly be recommended for the kit you
supply.

Resetting the BFO really requires recoding the PIC.
(Something I am doing and will eventually complete.)
In my opinion, it is just plain unwise to sell a kit
that requires recoding a PIC.

The redesign of the crystal filter is way beyond what
should be expected.

I'm just having fun and telling other people who can do
this about it.

thanks
tom
.

--- In mkars80@yahoogroups.co.uk, Steve Drury wrote:
>
> Tom,
>
> I don't believe the two jobs are conflicting, why have two oscillators
> when one will do? Remember that the MKARS80 is a single board design
> with no interstage screening, if you have another oscilator for the
> frequency counter not only do you have additional cost but also very
> likely introduce "birdies" somewhere in band also another trimmer to adjust.
>
> You have optimised the crystal filter for receive, have you had any QSOs
> in this state? You may find your transmission muffled; with the BITEX
> based transceiver the impedance seen by the filter changes between
> transmit and receive so the filter design is a compromise solution.

>
> In the last 4 years about 1500 MKARS80 have been sold, I guess about 2/3
> have been on the air mainly with good reports... the MKARS80 was
> designed as easy to build and low cost transceiver making changes like
> matched crystals, multiple oscillators and varicap tuning would have
> defeated the design objective.
>
> I ask everyone to build the radio as intended BEFORE making any changes
> then they know at least it worked OK in the first place! Then go ahead
> and make changes (improvements?), that's the way you learn.
>
> If you want to modify the firmware the code is on my website, I know
> that some folk enjoy personalising their radio with a callsign or
> different display format.
>
> Have fun,
>
> Steve G6ALU
>

2756. Re: [mkars80] Re: Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 21:48:20 UTC
From: steve@radio-kits.co.uk
Topic: 2756 Message: 2756

Squegging can be caused by too much positive feedback, try increasing the value of the bottom end capacitor - that's in a Colpits circuit.

Steve

----- Reply message -----
From: "k1trb" <trberger@...>
To: <mkars80@...>
Subject: [mkars80] Re: Horrible Varactor VFO Buzz
Date: Tue, Jan 22, 2013 21:24

Steve

Thanks for your comment.

After Ken and Mike's replies it dawned on me that the oscillator might be squegging. If so, I can't seem to find a scope setting to show me this. It certainly sounds like squegging. The MKARS80 audio sounds like it is gated at 30 to 60Hz. I'm not sure I know how to trigger my scope to see it. Would a diode probe show it?

I don't know what timing cicuits might allow this. Squegging is supposed to be caused when two timing circuits are very close. (Two bypass loops resonant at frequencies differing at the squegging rate.)

Leads around the varactor are very short. Putting the polyvaricon in place of the varactor solves the problem. (No other changes.)

Just now I put the varactor on a separate battery and that makes no difference.

The squegging frequency is not affected by:
1. the dc bias circuit to the varactor.
2. the blocking capacitor to the varactor.
3. the voltage on the varactor diode.

Hmmm.

This is worth tracking down since, as I said, it happens in a vfo of completely different design.

I thought squegging was from the age of vacuum tubes.

thanks
tom

..

--- In mkars80@..., Steve Drury wrote:
>
> Tom,
>
> Not sure whats happening here but if you can see a strange waveform on
> the scope are you sure the oscillator isn't "squegging"?
>
> Steve G6ALU
>
> On 22/01/2013 16:54, k1trb wrote:
> > I need advice.
> >
> > In implementing the varactor vfo tuning mod my vfo has a
> > terrible buzz. (I use a bb112.)
> >
> > This vfo is a bjt series tuned Colpitts. I also built
> > a 40m Hartley fet vfo straight out of emrfd which I tried to
> > tune with a power diode used as a varactor. It too buzzes.
> >
> > I have successfully added very small trim capacitors (like the
> > bandspread and Huff & Puff stabilizers on the MKARS80) to
> > vfo's. But my "broadband" tuning efforts have been
> > buzzing busts.
> >
> > If I trade the varactor for a capacitor, the vfo sounds
> > just fine.
> >
> > ==> Some theory:
> >
> > 1. Diode rectification.
> >
> > The PTP voltage on a vfo inductor can be quite large.
> > This voltage adds to the dc tuning voltage of the varactor.
> > Thus, the voltage on the varactor can go negative during
> > the cycle so the diode will rectify.
> >
> > This issue is discussed on the web (e.g. on qrpops).
> >
> > 2. Phase modulation
> >
> > I cannot find this issue mentioned or discussed on the web.
> >
> > The actual voltage on the varactor is the sum of the rf plus
> > the dc tuning voltage. Thus the junction capacitance of the
> > varactor will go up and down right along with the generated
> > sine wave.
> >
> > If the rf voltage is very small (as in a varactor trimmer

> > or a receiving rf preamp) this effect should be of no
> > consequence.
> >
> > But for broadband tuning of a vfo it might be an issue.
> >
> > The capacitance does not respond immediately, so there is
> > a phase delay. Further, the phase effect is limited.
> > For example (math geek stuff) it might look like:
> >
> > A sin(w t + B sin(w t + c))
> >
> > The second term is the varying phase shift. By changing
> > B and c it is possible to make this wave look like the
> > one I see on my oscilloscope at the vfo test point.
> >
> > But I have no idea how this wave results in a buzz around
> > 100Hz.
> >
> > ==> Some practice.
> >
> > My circuit is a capacity Ct connected from the C45 - L5 junction
> > to the varactor Cv which then connects to ground.
> >
> > The varactor Cv is biased from the 8v regulated supply
> > shunted by .1uF through an impedance Z. (The voltage is
> > set by a resistive divider and a 10 turn pot.)
> >
> > I have tried large (470pF) Ct which needs high DC on the
> > varactor leading to low Cv.
> >
> > I have tried small (82pF) Ct which needs low DC on the
> > varactor leading to high Cv.
> >
> > I have tried resistors for Z (ranging from 1K to 1M).
> > I have tried inductors for Z (ranging from 150mh to 300uH).
> > (The 300uH inductor turned the vfo into a 470KHz oscillator!
> > But the 300uH Z did have very high impedance at 6MHz.)
> >
> > I tried different bb112's.
> >
> > They all buzz.
> >
> > None of these changes alter the buzzing frequency enough to
> > be noticeable. So the changing parts are not part of determining
> > the buzz frequency or amplitude.
> >
> > If I replace the bb112 by the polyvaricon, the vfo works nicely.
> >
> > (This buzz can be heard on my Icom 718
> > at the appropriate 6+ MHz frequency of the vfo. It also

> > causes MKARS80 signals to hopelessly gargle. With a
> > 1KHz band limit on my scope I can see an am modulation
> > envelope at the vfo test point of about the right frequency.)
> >
> > ==> An Aside:
> >
> > I have no idea why a 68mH choke works for PA0RCL. My VNA shows
> > these chokes to have low impedance at 6MHz.
> >
> > The self resonant frequency of a 68mH choke (according to data
> > sheets) is about 80KHz. About 80KHz the reactance goes capacitive
> > for a bit. But at higher f, Z is a lottery. At higher frequencies
> > the ferrite is changing properties rapidly with increasing frequency
> > and probably is about like air at 6MHz.
> >
> > So, why does this work for him?
> >
> > Yeah. I need help.
> >
> > thanks
> > tom
> > .
> > k1trb
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[Non-text portions of this message have been removed]

2757. Re: [mkars80] Re: Crystal Oscillator conflict

Yahoo group: mkars80
Date: 2013-01-22 22:13:14 UTC
From: Steve Drury
Topic: 2746 Message: 2757

Tom,

I'm not sure of your angle but I wouldn't expect anyone to recode the
PIC but the code is there if they want to play...

It would be nice to have specially made crystals like Elecraft use but
then you would be paying Elecraft prices for the kit!

Steve G6ALU

On 22/01/2013 21:46, k1trb wrote:
> Steve
>
> Thanks for your comments.
>
> I view what I am doing as tweaks. I certainly would not
> recommend changing your design.
>
> As "design under constraint" the MKARS80 is an engineering
> marvel.
>
> Yes, I have had before and after qso's on my filter mod.
> The before mod received comments about "pinched audio"
> (heavy on the highs). The after mod were comments on
> how nice it sounded.
>
> My mods cannot possibly be recommended for the kit you
> supply.
>
> Resetting the BFO really requires recoding the PIC.
> (Something I am doing and will eventually complete.)
> In my opinion, it is just plain unwise to sell a kit
> that requires recoding a PIC.
>
> The redesign of the crystal filter is way beyond what
> should be expected.
>
> I'm just having fun and telling other people who can do
> this about it.
>
> thanks
> tom
> .
>
>
> --- In mkars80@..., Steve Drury wrote:

>> Tom,
>>
>> I don't believe the two jobs are conflicting, why have two oscillators
>> when one will do? Remember that the MKARS80 is a single board design
>> with no interstage screening, if you have another oscilator for the
>> frequency counter not only do you have additional cost but also very
>> likely introduce "birdies" somewhere in band also another trimmer to adjust.
>>
>> You have optimised the crystal filter for receive, have you had any QSOs
>> in this state? You may find your transmission muffled; with the BITEX
>> based transceiver the impedance seen by the filter changes between
>> transmit and receive so the filter design is a compromise solution.
>>
>> In the last 4 years about 1500 MKARS80 have been sold, I guess about 2/3
>> have been on the air mainly with good reports... the MKARS80 was
>> designed as easy to build and low cost transceiver making changes like
>> matched crystals, multiple oscillators and varicap tuning would have
>> defeated the design objective.
>>
>> I ask everyone to build the radio as intended BEFORE making any changes
>> then they know at least it worked OK in the first place! Then go ahead
>> and make changes (improvements?), that's the way you learn.
>>
>> If you want to modify the firmware the code is on my website, I know
>> that some folk enjoy personalising their radio with a callsign or
>> different display format.
>>
>> Have fun,
>>
>> Steve G6ALU
>>
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>

2758. Re: Mixer mods

Yahoo group: mkars80
Date: 2013-01-22 22:16:18 UTC
From: k1trb
Topic: 2743 Message: 2758

John

Enter the following line into google search:

"diode matching for mixers" qrppops

This is a fantastic website with a large number
of very practical homebrew circuits. He wants to
keep the exposition straightforward so that the
technical engineering is all behind the scene.

I thought matching was covered in the ARRL Handbook.
If so, it's not in the index of my 2005 edition.

I know Lew McCoy talks about it in old QST articles, but
a search of past QST's doesn't turn it up easily.

People now use "off the shelf" double balanced mixers
which have matches we cannot achieve. So maybe
matching is a lost art.

Have fun.

regards
tom
.
k1trb

--- In mkars80@yahoogroups.co.uk, jaevans@... wrote:
>
> Tom,
>
> I'm interested in learning about diode matching techniques. Do you have
> an online reference for a newbie? I saw the handbook referenced, but I
> suspect that may be the RSGB handbook which I don't have.
>
> 73 - john - N0HJ
>

2759. Re: Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 22:20:57 UTC
From: k1trb
Topic: 2742 Message: 2759

Steve

Thanks for the help. I'll try that.

I'm not exactly sure why the switch from varactor to polyvaricon
would make a difference ... but it does.

If it is feedback, then I can solve my problems in other vfos
too.

thanks
tom
.
k1trb

--- In mkars80@..., "steve@..." wrote:
>
> Squegging can be caused by too much positive feedback, try increasing the value of the bottom end capacitor - that's in a Colpits circuit.
>
> Steve
>
>

2760. Re: Crystal Oscillator conflict

Yahoo group: mkars80
Date: 2013-01-22 22:34:12 UTC
From: k1trb
Topic: 2746 Message: 2760

Steve

You are exactly right (and I said so in my post).

Crystals like in the Elecraft are like adding off the shelf mixers
to the MKARS80. They break the price point and defeat a
major point of the project.

There are two reasons I got a MKARS80:
1. I am designing a 20m personal mobile.
2. The MKARS80 is a great project and I thought it would
be nice if my club made it.

#1 The MKARS80 allows me to test out ideas for my PM
in a completed working rig.
For example: my PM will be controlled by a PIC and have a
Huff&Puff vfo. I can just code a PIC 16F818 and try out
my code on the MKARS80. In fact, analyzing your code
was where I began. It was great of you to put it out
there.
#2 Unfortunately, the MKARS80 is far too challenging for
my club. But it was a good idea. And I'm having fun.

thanks
tom
.
k1trb

--- In mkars80@..., Steve Drury wrote:
>
> Tom,
>
> I'm not sure of your angle but I wouldn't expect anyone to recode the
> PIC but the code is there if they want to play...
>
> It would be nice to have specially made crystals like Elecraft use but
> then you would be paying Elecraft prices for the kit!
>
> Steve G6ALU
>

2761. Re: [mkars80] Re: Mixer mods

Yahoo group: mkars80
Date: 2013-01-22 22:37:10 UTC
From: jaevans@...
Topic: 2743 Message: 2761

Thanks Tom - that fits the bill and gives me another site to peruse and learn.

73 - john - N0HJ

> John
>
> Enter the following line into google search:
>
> "diode matching for mixers" qrppops
....
>
> regards
> tom
> ..
> k1trb

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

2762. Re: [mkars80] Re: Horrible Varactor VFO Buzz

Yahoo group: mkars80
Date: 2013-01-22 22:37:33 UTC
From: Steve Drury
Topic: 2742 Message: 2762

Perhaps the varacter circuit is higher Q?

Steve

On 22/01/2013 22:20, k1trb wrote:
> Steve
>
> Thanks for the help. I'll try that.
>
> I'm not exactly sure why the switch from varactor to polyvaricon
> would make a difference ... but it does.
>
> If it is feedback, then I can solve my problems in other vfos
> too.
>
> thanks
> tom
> .
> k1trb
>
>
> --- In mkars80@..., "steve@..." wrote:
>> Squegging can be caused by too much positive feedback, try increasing the value of the
bottom end capacitor - that's in a Colpits circuit.
>>
>> Steve
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> Checked by AVG - www.avg.com
> Version: 2013.0.2890 / Virus Database: 2639/6048 - Release Date: 01/21/13
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2763. digital SWR meter kit on 144mhz

Yahoo group: mkars80
Date: 2013-01-26 07:43:56 UTC
From: F5mpw
Topic: 2763 Message: 2763

Hello!

My digital swr meter works very well! A friend of me ask if it's possible to modifie the kit and use it on 145 mhz...

I prepare photo to put them on the group in a special folder.

All the best 73 Philippe F5MPW

[Non-text portions of this message have been removed]

2764. Re: [mkars80] digital SWR meter kit on 144mhz

Yahoo group: mkars80
Date: 2013-01-26 09:11:51 UTC
From: steve@radio-kits.co.uk
Topic: 2764 Message: 2764

The frequency restriction is due to the characteristics of the ferrite rings, I have a few special ferrites left which are suitable for VHF and need to be requested when ordering the kit
Steve G6ALU

----- Reply message -----
From: "F5mpw" <f5mpw@...>
To: <mkars80@...>
Subject: [mkars80] digital SWR meter kit on 144mhz
Date: Sat, Jan 26, 2013 07:43

Hello!

My digital swr meter works very well! A friend of me ask if it's possible to modifie the kit and use it on 145 mhz...

I prepare photo to put them on the group in a special folder.

All the best 73 Philippe F5MPW

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2765. Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-29 12:12:17 UTC
From: Jes
Topic: 2765 Message: 2765

Hi all.Its my turn to flood the message board with questions!Having populated the board,done the initial smoke test and fitted the display I have a tuning range of about 4.440 - 8.790 MHz.Obviously some thing is amiss.where should I look to correct this?Thanks for reading.....Jes-m0jsw

2766. New MKARS80 on the Air

Yahoo group: mkars80
Date: 2013-01-29 13:57:13 UTC
From: Erkki Heikkinen
Topic: 2766 Message: 2766

It took less than a week to build. The hard part was preparing the enclosure, but even that went quite smoothly.

Excellent kit and excellent manual. With the high count of components I did not expect it to work on the first try! I took time to read the old messages on the reflector before ordering the kit, so I knew what common mistakes to avoid...

Thank you Steve and the group.

73 Erkki OH2BF

2767. Re: [mkars80] Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-29 19:41:42 UTC
From: Steve Drury
Topic: 2765 Message: 2767

Hi Jes,

That's a very large tuning range so looks like you have a couple of capacitors the wrong way round in the VFO... check carefully. If you have a frequency counter can you measure the frequency at TPVFO?

Steve G6ALU

On 29/01/2013 12:12, Jes wrote:
> Hi all.Its my turn to flood the message board with questions!Having populated the board,done the initial smoke test and fitted the display I have a tuning range of about 4.440 - 8.790 MHz.Obviously some thing is amiss.where should I look to correct this?Thanks for reading.....Jes-m0jsw
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.2890 / Virus Database: 2639/6063 - Release Date: 01/28/13
>
>

2768. Re: [mkars80] New MKARS80 on the Air

Yahoo group: mkars80
Date: 2013-01-29 19:42:21 UTC
From: Steve Drury
Topic: 2766 Message: 2768

Thanks for the kind comments, enjoy the radio....

Steve G6ALU

On 29/01/2013 13:57, Erkki Heikkinen wrote:
> It took less than a week to build. The hard part was preparing the
> enclosure, but even that went quite smoothly.
>
> Excellent kit and excellent manual. With the high count of components I
> did not expect it to work on the first try! I took time to read the old
> messages on the reflector before ordering the kit, so I knew what common
> mistakes to avoid...
>
> Thank you Steve and the group.
>
> 73 Erkki OH2BF
>
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> ------------------------------------
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.2890 / Virus Database: 2639/6063 - Release Date: 01/28/13
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>

2771. Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-30 13:48:21 UTC
From: Jes
Topic: 2765 Message: 2771

Thanks for the reply Steve.I`m particularly annoyed with myself as I have deliberately taken my time so as to avoid daft mistakes,but failed anyway!I`ll have a good look at the vfo section and get back to you.Thanks again...Jes

--- In mkars80@..., Steve Drury wrote:
>
> Hi Jes,
>
> That's a very large tuning range so looks like you have a couple of
> capacitors the wrong way round in the VFO... check carefully. If you
> have a frequency counter can you measure the frequency at TPVFO?
>
> Steve G6ALU
>
>
> On 29/01/2013 12:12, Jes wrote:
> > Hi all.Its my turn to flood the message board with questions!Having populated the board,done the initial smoke test and fitted the display I have a tuning range of about 4.440 - 8.790 MHz.Obviously some thing is amiss.where should I look to correct this?Thanks for reading.....Jes-m0jsw
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2013.0.2890 / Virus Database: 2639/6063 - Release Date: 01/28/13
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>

2772. Re: [mkars80] Re: hi

Yahoo group: mkars80
Date: 2013-01-30 13:49:14 UTC
From: John
Topic: 2772 Message: 2772

Hi Steve

A very wide ranging piece of junk because it just turned up in the penturning group with a slightly different code at the end and a different sender!

Hope you are well.

Regards,
John.

On 30/01/2013 13:42, hamlab3 wrote:
>
> Obviously dont click on the link!
>
> Steve G6ALU
>
> ---
>
>

[Non-text portions of this message have been removed]

2773. Re: [mkars80] Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-30 13:49:43 UTC
From: steve@...
Topic: 2765 Message: 2773

May not be a daft mistake Jes, that was my first guesse... do you have
a frequency counter?

Steve

On 2013-01-30 13:48, Jes wrote:
> Thanks for the reply Steve.I`m particularly annoyed with myself as I
> have deliberately taken my time so as to avoid daft mistakes,but
> failed anyway!I`ll have a good look at the vfo section and get back
> to
> you.Thanks again...Jes
>
> --- In mkars80@..., Steve Drury wrote:
>>
>> Hi Jes,
>>
>> That's a very large tuning range so looks like you have a couple of
>> capacitors the wrong way round in the VFO... check carefully. If you
>> have a frequency counter can you measure the frequency at TPVFO?
>>
>> Steve G6ALU
>>
>>
>> On 29/01/2013 12:12, Jes wrote:
>> > Hi all.Its my turn to flood the message board with
>> questions!Having populated the board,done the initial smoke test and
>> fitted the display I have a tuning range of about 4.440 - 8.790
>> MHz.Obviously some thing is amiss.where should I look to correct
>> this?Thanks for reading.....Jes-m0jsw
>> >
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>> > ------------------------------------
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>> > Yahoo! Groups Links
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>> > -----
>> > No virus found in this message.
>> > Checked by AVG - www.avg.com
>> > Version: 2013.0.2890 / Virus Database: 2639/6063 - Release Date:
>> 01/28/13

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> ---
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> Yahoo! Groups Links
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2774. Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-30 14:48:07 UTC
From: Jes
Topic: 2765 Message: 2774

Steve...Unfortunately the only frequency counter I have is a 3 digit one,and I have been unable to get a reading from the vfo test point...Jes

2775. Re: [mkars80] Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-30 18:09:57 UTC
From: steve@radio-kits.co.uk
Topic: 2775 Message: 2775

Ok, take a careful look around the VFO... Can you hear any stations?
Steve

----- Reply message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Subject: [mkars80] Re: Mkars80 setting up
Date: Wed, Jan 30, 2013 14:48

Steve...Unfortunately the only frequency counter I have is a 3 digit one,and I have been unable to get a reading from the vfo test point...Jes

---

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2776. Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-30 19:10:55 UTC
From: Jes
Topic: 2765 Message: 2776

Steve...I found an unwanted solder bridge within the vfo which on removing put the range where it should be.I have adjusted C38 and my tuning range is now 3.460 - 3.888 MHz.I found a strong cw signal on another rx and can hear it VERY faintly on the Mkars with the rf gain on full....Jes

--- In mkars80@..., "steve@..." wrote:
>
> Ok, take a careful look around the VFO... Can you hear any stations?
> Steve
>
>
>
> ----- Reply message -----
> From: "Jes"
> To:
> Subject: [mkars80] Re: Mkars80 setting up
> Date: Wed, Jan 30, 2013 14:48
>
>
> Steve...Unfortunately the only frequency counter I have is a 3 digit one,and I have been unable to get a reading from the vfo test point...Jes
>
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> ------------------------------------
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>
> [Non-text portions of this message have been removed]
>

2777. Re: [mkars80] Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-30 19:27:04 UTC
From: steve@radio-kits.co.uk
Topic: 2775 Message: 2777

Check that all the transformers are soldered properly, this is the normal cause of a deaf radio.
Steve

----- Reply message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Subject: [mkars80] Re: Mkars80 setting up
Date: Wed, Jan 30, 2013 19:10

Steve...I found an unwanted solder bridge within the vfo which on removing put the range where it should be.I have adjusted C38 and my tuning range is now 3.460 - 3.888 MHz.I found a strong cw signal on another rx and can hear it VERY faintly on the Mkars with the rf gain on full....Jes

--- In mkars80@..., "steve@..." wrote:
>
> Ok, take a careful look around the VFO... Can you hear any stations?
> Steve
>
>
>
> ----- Reply message -----
> From: "Jes"
> To:
> Subject: [mkars80] Re: Mkars80 setting up
> Date: Wed, Jan 30, 2013 14:48
>
>
> Steve...Unfortunately the only frequency counter I have is a 3 digit one,and I have been unable to get a reading from the vfo test point...Jes
>
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> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

2778. Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-30 20:15:06 UTC
From: Jes
Topic: 2765 Message: 2778

Steve.Either Ll,L2 or L4 had not made a connection.Its now burst into life,Great stuff,amazingly stable and sensitive.I will now continue and see what else i`ve stuffed up.Thanks Steve :)

--- In mkars80@..., "steve@..." wrote:
>
> Check that all the transformers are soldered properly, this is the normal cause of a deaf radio.
> Steve

2779. Re: [mkars80] Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-01-30 20:26:04 UTC
From: Steve Drury
Topic: 2765 Message: 2779

Just remember to do the set up properly!!

Steve G6ALU

On 30/01/2013 20:15, Jes wrote:
> Steve.Either L1,L2 or L4 had not made a connection.Its now burst into life,Great stuff,amazingly stable and sensitive.I will now continue and see what else i`ve stuffed up.Thanks Steve :)
>
> --- In mkars80@..., "steve@..." wrote:
>> Check that all the transformers are soldered properly, this is the normal cause of a deaf radio.
>> Steve
>
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>
> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.2890 / Virus Database: 2639/6068 - Release Date: 01/30/13
>
>

2780. Re: Mkars80 setting up

Yahoo group: mkars80
Date: 2013-02-03 17:22:03 UTC
From: Jes
Topic: 2765 Message: 2780

Thanks for all your help Steve.All up and running now!During the build I had to change solder and it would seem the second reel is not great quality I found a few poor joints.Great kit Steve,although I already knew this.I built one of these a couple of years ago and never used it and it was swapped in an exchange,and regretted it almost instantly.This ones for keeps!Regards....Jes - M0JSW

--- In mkars80@..., Steve Drury wrote:
>
> Just remember to do the set up properly!!
>
> Steve G6ALU

2781. Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-06 20:26:49 UTC
From: Jes
Topic: 2781 Message: 2781

Having set-up the radio,I have had a couple of successful qso`s on it and have carefully boxed it up.However the huff/puff circuit will not lock.Any ideas as to what may have caused this?.....jes

2782. Re: [mkars80] Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-06 20:27:45 UTC
From: steve@radio-kits.co.uk
Topic: 2782 Message: 2782

What frequency are you on?

----- Reply message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Subject: [mkars80] Spoke too soon!
Date: Wed, Feb 6, 2013 20:26

Having set-up the radio,I have had a couple of successful qso`s on it and have carefully boxed it up.However the huff/puff circuit will not lock.Any ideas as to what may have caused this?.....jes

---

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2783. Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-06 20:43:04 UTC
From: Jes
Topic: 2781 Message: 2783

It wont lock anywhere and is drifting.

--- In mkars80@..., "steve@..." wrote:
>
> What frequency are you on?
>
>
>
> ----- Reply message -----
> From: "Jes"
> To:
> Subject: [mkars80] Spoke too soon!
> Date: Wed, Feb 6, 2013 20:26
>
>
> Having set-up the radio,I have had a couple of successful qso`s on it and have carefully boxed it up.However the huff/puff circuit will not lock.Any ideas as to what may have caused this?.....jes
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> [Non-text portions of this message have been removed]
>

2784. Re: [mkars80] Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-06 21:30:23 UTC
From: steve@radio-kits.co.uk
Topic: 2784 Message: 2784

I wonder if this is another poor joint around the CFO section. The huff and puff won't lock if it is drifting fast as it thinks you are tuning.
Steve

----- Reply message -----
From: "Jes" <jes.woodland@...>
To: <mkars80@...>
Subject: [mkars80] Re: Spoke too soon!
Date: Wed, Feb 6, 2013 20:43

It wont lock anywhere and is drifting.

--- In mkars80@..., "steve@..." wrote:
>
> What frequency are you on?
>
>
>
> ----- Reply message -----
> From: "Jes"
> To:
> Subject: [mkars80] Spoke too soon!
> Date: Wed, Feb 6, 2013 20:26
>
>
> Having set-up the radio,I have had a couple of successful qso`s on it and have carefully boxed it up.However the huff/puff circuit will not lock.Any ideas as to what may have caused this?.....jes
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> [Non-text portions of this message have been removed]
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

2785. Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-06 21:38:08 UTC
From: Jes
Topic: 2781 Message: 2785

Thanks for the reply Steve.I will check that out tomorrow...jes

--- In mkars80@..., "steve@..." wrote:
>
> I wonder if this is another poor joint around the CFO section. The huff and puff won't lock if it is drifting fast as it thinks you are tuning.
> Steve
>
>
>
> ----- Reply message -----
> From: "Jes"
> To:
> Subject: [mkars80] Re: Spoke too soon!
> Date: Wed, Feb 6, 2013 20:43
>
>
> It wont lock anywhere and is drifting.
>
> --- In mkars80@..., "steve@..." wrote:
> >
> > What frequency are you on?
> >
> >
> >
> > ----- Reply message -----
> > From: "Jes"
> > To:
> > Subject: [mkars80] Spoke too soon!
> > Date: Wed, Feb 6, 2013 20:26
> >
> >
> > Having set-up the radio,I have had a couple of successful qso`s on it and have carefully boxed it up.However the huff/puff circuit will not lock.Any ideas as to what may have caused this?.....jes
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> [Non-text portions of this message have been removed]
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2786. Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-07 16:19:58 UTC
From: johncronhelm@nl.rogers.com
Topic: 2781 Message: 2786

Hello Jez,
I am not sure how you had a successful QSO without the huff and puff locking.
Mine won't lock without drifting unless I first have a warm up period of at least
15 mins. Have you tried a prolonged warm-up?
John, vo1jcc.

--- In mkars80@..., "Jes" wrote:
>
> It wont lock anywhere and is drifting.
>
> --- In mkars80@..., "steve@..." wrote:
> >
> > What frequency are you on?
> >
> >
> >
> > ----- Reply message -----
> > From: "Jes"
> > To:
> > Subject: [mkars80] Spoke too soon!
> > Date: Wed, Feb 6, 2013 20:26
> >
> >
> > Having set-up the radio,I have had a couple of successful qso`s on it and have
carefully boxed it up.However the huff/puff circuit will not lock.Any ideas as to what may
have caused this?.....jes
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
> >
>

2787. Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-07 17:42:10 UTC
From: Jes
Topic: 2781 Message: 2787

Hi John.Before I boxed the radio it was all set up,huff n puff working and it had a good "soak" test.It was during this time that I had the qso`s.When I was satisfied everything was fine,I boxed it.It was after I had boxed it that the problem arose....Jes - M0JSW

--- In mkars80@..., "johncronhelm@..." wrote:
>
> Hello Jez,
> I am not sure how you had a successful QSO without the huff and puff locking.
> Mine won't lock without drifting unless I first have a warm up period of at least
> 15 mins. Have you tried a prolonged warm-up?
> John, vo1jcc.

2788. Re: [mkars80] Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-07 20:56:18 UTC
From: Steve Drury
Topic: 2781 Message: 2788

On your display do you get a continuous "U" or does it turn to a "+"?

Steve

On 07/02/2013 17:42, Jes wrote:
> Hi John.Before I boxed the radio it was all set up,huff n puff working and it had a good "soak" test.It was during this time that I had the qso`s.When I was satisfied everything was fine,I boxed it.It was after I had boxed it that the problem arose....Jes - M0JSW
>
> --- In mkars80@..., "johncronhelm@..." wrote:
>> Hello Jez,
>> I am not sure how you had a successful QSO without the huff and puff locking.
>> Mine won't lock without drifting unless I first have a warm up period of at least
>> 15 mins. Have you tried a prolonged warm-up?
>> John, vo1jcc.
>
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.2897 / Virus Database: 2639/6085 - Release Date: 02/06/13
>
>

2789. Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-02-07 21:18:22 UTC
From: Jes
Topic: 2781 Message: 2789

When turning on the radio everything works as it should.It would seem that once it has warmed up it drifts and wiil not lock.That sounds like a dry joint does`nt it? once it has warmed up the U displays continually,occasionally flashing the + symbol...Jes

--- In mkars80@..., Steve Drury wrote:
>
> On your display do you get a continuous "U" or does it turn to a "+"?
>
> Steve
>
> On 07/02/2013 17:42, Jes wrote:
> > Hi John.Before I boxed the radio it was all set up,huff n puff working and it had a good "soak" test.It was during this time that I had the qso`s.When I was satisfied everything was fine,I boxed it.It was after I had boxed it that the problem arose....Jes - M0JSW
> >
> > --- In mkars80@..., "johncronhelm@" wrote:
> >> Hello Jez,
> >> I am not sure how you had a successful QSO without the huff and puff locking.
> >> Mine won't lock without drifting unless I first have a warm up period of at least
> >> 15 mins. Have you tried a prolonged warm-up?
> >> John, vo1jcc.
> >
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> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2013.0.2897 / Virus Database: 2639/6085 - Release Date: 02/06/13
> >
> >
>

2790. Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-03-13 20:04:32 UTC
From: Jes
Topic: 2781 Message: 2790

After resoldering every joint on the board the huff/puff will still not lock,vfo drifting 100+ hz and always slowly climbing.Any ideas?Thanks....Jes

2791. Re: [mkars80] Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-03-13 22:12:49 UTC
From: Steve Drury
Topic: 2781 Message: 2791

OK Jes, sounds like a duff component somewhere. The most likely culprit
is one on the feedback capacitors C59 and C60, send me your address by
private email and I will pop a couple in the post.

Steve

On 13/03/2013 20:04, Jes wrote:
> After resoldering every joint on the board the huff/puff will still not lock,vfo drifting
100+ hz and always slowly climbing.Any ideas?Thanks....Jes
>
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>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.2904 / Virus Database: 2641/6166 - Release Date: 03/12/13
>
>

2792. Re: Spoke too soon!

Yahoo group: mkars80
Date: 2013-03-14 08:40:49 UTC
From: Jes
Topic: 2781 Message: 2792

Thanks again Steve.Before I remove those caps, I`ll double check on my soldering,i`m pretty sure I have some 1nf NPO`s so I should be ok for replacement caps but thanks anyway.

2793. Initial test problem

Yahoo group: mkars80
Date: 2013-03-22 14:51:44 UTC
From: anthonybailey85@rocketmail.com
Topic: 2793 Message: 2793

Hi all,
on initial test voltage checks are all good but I only get a low volume hiss from the speaker. After fitting IC2 and the display I powered up again, display works fine but shows USB @ 000.000 hz and will not alter. Re-checked all components and soldering with nothing found, any help appreciated.

Regards
Tony

2794. Re: [mkars80] Initial test problem

Yahoo group: mkars80
Date: 2013-03-22 15:18:36 UTC
From: steve@radio-kits.co.uk
Topic: 2794 Message: 2794

Hi Tony,
The micro isn't seeing any VFO, check the soldering on the VFO coil then voltages on VFO transistor and buffer stages.
Steve G6ALU

----- Reply message -----
From: "anthonybailey85@..." <anthonybailey85@...>
To: <mkars80@...>
Subject: [mkars80] Initial test problem
Date: Fri, Mar 22, 2013 14:51

Hi all,
on initial test voltage checks are all good but I only get a low volume hiss from the speaker. After fitting IC2 and the display I powered up again, display works fine but shows USB @ 000.000 hz and will not alter. Re-checked all components and soldering with nothing found, any help appreciated.

Regards
Tony

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2795. Re: Initial test problem

Yahoo group: mkars80
Date: 2013-03-22 17:31:02 UTC
From: anthonybailey85@rocketmail.com
Topic: 2793 Message: 2795

Hi Steve,
Thanks for the help, you were spot on, dry joint on VFO coil.Now tunes to full frequency range and picked up some stations. I am so impressed with the quality of this kit and your support, have purchased the SWR meter from you and looking forward to that when I have completed this build.
Many Thanks
Tony

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> Hi Tony,
> The micro isn't seeing any VFO, check the soldering on the VFO coil then voltages on VFO transistor and buffer stages.
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "anthonybailey85@..." <anthonybailey85@...>
> To: <mkars80@...>
> Subject: [mkars80] Initial test problem
> Date: Fri, Mar 22, 2013 14:51
>
>
> Hi all,
> on initial test voltage checks are all good but I only get a low volume hiss from the speaker. After fitting IC2 and the display I powered up again, display works fine but shows USB @ 000.000 hz and will not alter. Re-checked all components and soldering with nothing found, any help appreciated.
>
> Regards
> Tony
>
>
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> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]

>

2797. Re: [mkars80] Hi Steve

Yahoo group: mkars80
Date: 2013-04-04 12:09:40 UTC
From: steve@radio-kits.co.uk
Topic: 2797 Message: 2797

Hi,
Have you adjusted the range trimmer as in the instructions? The kit must be set up by following the instructions first.

Regards,
Steve G6ALU

----- Reply message -----
From: "hammisaada" <muhammed.saada@...>
To: <mkars80@...>
Subject: [mkars80] Hi Steve
Date: Thu, Apr 4, 2013 11:34

I've just finished building the radio, done the initial testing, then connected the display, first problem I had was that I didn't get any frequency digits on the display, this was due to a cold joint which I fixed and problem solved, now my main problem is that the frequency range is between 3.964 and 4.340, couldn't find anything that was solve the problem, I was wondering if anyone had any suggestions to solve it, thanks for the help.

Mohamad

2E0MOA

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2798. rodger the bodger's mkars

Yahoo group: mkars80
Date: 2013-04-21 09:25:31 UTC
From: christopher_iles@btinternet.com
Topic: 2798 Message: 2798

Hello All,

I was the (fortunate?) winner of a bodged mkars80 on eBay. The power wires had been put in the wrong way round and when the fuse blew, "Rodger" shorted the fuse out with a nice thick piece of wire and re-connected it...the wrong way round again, oops!

Cutting a long story short and many BC547s aswell, I now have a working receiver and lcd. The huff and puff seems to be doing it's job but the receiver seems quite deaf.

I tried connecting the aerial after the low pass filter in case there was a problem with that but no difference.

I am hearing fellow amateurs on the radio but from reading the excellent reports about the receiver I think mine's a bit deaf as I can only get reasonable results using a half wave inverted vee at 25 feet.

The transistors I have used are BC547Bs (bought brand new). There were also a couple of MPSH10s (or something like that!) which I also replaced.

Not fired up the transmitter yet and the metal case...that's another story ha ha! I think the holes were made with a knife and fork!

If I get this radio as it should be I will call it the MKARS80 SP-FASE...silk purse from a sow's ear!!!

Any advice or assistance as to how lively the rx should be would be welcome.

Thanks, Chris. G0VOE in Somerset.

2799. Re: [mkars80] rodger the bodger's mkars

Yahoo group: mkars80
Date: 2013-04-21 17:46:12 UTC
From: Panagiotis Perreas
Topic: 2798 Message: 2799

Hi Chris!
That's your seller under a different ebay account...

From: mister35mm <mister35mm@...>
To: GQRP@yahoogroups.com
Sent: Sunday, 21 April 2013, 3:53
Subject: [GQRP] Does anyone fancy a paid puzzle?

I have a ten-tec QRP rig, mono band that does not work *no RX, and I've not tried TX) and need rebuilding. Is there anyone who might be interested for a modest fee?

it's the 15m version of this:-

http://www.tentec.com/products/20-Meter-QRP-Transceiver-Kit-%252d-Model-1320.html

There is muffle audio, but not what it should sound like,,, and no signals at all.

Regards

Stephen G7VFY

07956-544202

Good luck with your quest to repair this excellent radio, I own one and I DO apreciate!
Unfortunately for you, einstein.186 aka mister35mm is a pro ebay shill bidder and that cost you 37 quid for the rig itself.
Thank God Steve is around to lent a technical hand!!!
All the best!

73

Panos - SV3AUW/ M0LPT

sv3auw.blogspot.co.uk

From: "christopher_iles@..." <christopher_iles@...>
To: mkars80@...
Sent: Sunday, 21 April 2013, 10:25
Subject: [mkars80] rodger the bodger's mkars

Hello All,

I was the (fortunate?) winner of a bodged mkars80 on eBay. The power wires had been put in the wrong way round and when the fuse blew, "Rodger" shorted the fuse out with a nice thick piece of wire and re-connected it...the wrong way round again, oops!

Cutting a long story short and many BC547s aswell, I now have a working receiver and lcd. The huff and puff seems to be doing it's job but the receiver seems quite deaf.

I tried connecting the aerial after the low pass filter in case there was a problem with that but no difference.

I am hearing fellow amateurs on the radio but from reading the excellent reports about the receiver I think mine's a bit deaf as I can only get reasonable results using a half wave inverted vee at 25 feet.

The transistors I have used are BC547Bs (bought brand new). There were also a couple of MPSH10s (or something like that!) which I also replaced.

Not fired up the transmitter yet and the metal case...that's another story ha ha! I think the holes were made with a knife and fork!

If I get this radio as it should be I will call it the MKARS80 SP-FASE...silk purse from a sow's ear!!!

Any advice or assistance as to how lively the rx should be would be welcome.

Thanks, Chris. G0VOE in Somerset.

[Non-text portions of this message have been removed]

2800. Re: [mkars80] rodger the bodger's mkars

Yahoo group: mkars80
Date: 2013-04-21 20:30:33 UTC
From: Steve G6ALU
Topic: 2798 Message: 2800

Hi Chris, first check to see if Roger has soldered all the wires from mixer transformers properly, it's common for the enamel to remain on the wire and insulate the joint....if these are Ok check voltages before going further.
Regards,
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: christopher_iles@...
Date: 21/04/2013 10:25 (GMT+00:00)
To: mkars80@...
Subject: [mkars80] rodger the bodger's mkars

Hello All,

I was the (fortunate?) winner of a bodged mkars80 on eBay. The power wires had been put in the wrong way round and when the fuse blew, "Rodger" shorted the fuse out with a nice thick piece of wire and re-connected it...the wrong way round again, oops!

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Thanks, Chris. G0VOE in Somerset.

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2801. Re: [mkars80] rodger the bodger's mkars

Yahoo group: mkars80
Date: 2013-04-22 09:33:25 UTC
From: PHILLIP WEAVER
Topic: 2798 Message: 2801

Hi Chris You will always get good advise of Steve . I would look at T6 for any bad joints
Phillip

--- On Sun, 21/4/13, christopher_iles@...m <christopher_iles@...> wrote:

From: christopher_iles@btinternet.com <christopher_iles@...>
Subject: [mkars80] rodger the bodger's mkars
To: mkars80@...
Date: Sunday, 21 April, 2013, 10:25

Hello All,

I was the (fortunate?) winner of a bodged mkars80 on eBay. The power wires had been put in the wrong way round and when the fuse blew, "Rodger" shorted the fuse out with a nice thick piece of wire and re-connected it...the wrong way round again, oops!

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If I get this radio as it should be I will call it the MKARS80 SP-FASE...silk purse from a sow's ear!!!

Any advice or assistance as to how lively the rx should be would be welcome.

Thanks, Chris. G0VOE in Somerset.

[Non-text portions of this message have been removed]

2802. MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-23 09:33:41 UTC
From: Ian Wade G3NRW
Topic: 2802 Message: 2802

Steve

I am looking for a QRP SSB/CW transceiver that will work on 5MHz. Do you think the MKARS80 could be easily modified for that band?

--
73
Ian, G3NRW

2803. RE: [mkars80] MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-23 16:49:17 UTC
From: Andrew Lenton (shack)
Topic: 2802 Message: 2803

Dear Ian,

The IF is 10 MHz, so not ideal, double the input frequency

BR

Andrew

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Ian Wade G3NRW
Sent: 23 April 2013 10:34
To: mkars80@...
Subject: [mkars80] MKARS80 on 5MHz?

Steve

I am looking for a QRP SSB/CW transceiver that will work on 5MHz. Do you
think the MKARS80 could be easily modified for that band?

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73
Ian, G3NRW

[Non-text portions of this message have been removed]

2804. Re: [mkars80] MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-23 19:42:57 UTC
From: steve@radio-kits.co.uk
Topic: 2804 Message: 2804

Change it to 8MHz perhaps?
Steve

----- Reply message -----
From: "Andrew Lenton \(shack\)" <a@...>
To: <mkars80@...>
Subject: [mkars80] MKARS80 on 5MHz?
Date: Tue, Apr 23, 2013 17:49

Dear Ian,

The IF is 10 MHz, so not ideal, double the input frequency

BR

Andrew

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Ian Wade G3NRW
Sent: 23 April 2013 10:34
To: mkars80@...
Subject: [mkars80] MKARS80 on 5MHz?

Steve

I am looking for a QRP SSB/CW transceiver that will work on 5MHz. Do you
think the MKARS80 could be easily modified for that band?

--
73
Ian, G3NRW

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Yahoo! Groups Links

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2805. Re: MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-24 10:40:54 UTC
From: Howard
Topic: 2802 Message: 2805

Hi,
I was thinking about this - now that we can have a NOV on 5MHz. However, this band is USB, and 80m is LSB. Would this cause a problem?
Steve, how about a modified schematic diagram for 5MHz/60m band?
Cheers, Howard G6LXK

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> Change it to 8MHz perhaps?
> Steve
>
>
>
> ----- Reply message -----
> From: "Andrew Lenton \(shack\)" <a@...>
> To: <mkars80@yahoogroups.co.uk>
> Subject: [mkars80] MKARS80 on 5MHz?
> Date: Tue, Apr 23, 2013 17:49
>
>
> Dear Ian,
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> The IF is 10 MHz, so not ideal, double the input frequency
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> BR
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> Andrew
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>
> From: mkars80@... [mailto:mkars80@...] On Behalf
> Of Ian Wade G3NRW
> Sent: 23 April 2013 10:34
> To: mkars80@....uk
> Subject: [mkars80] MKARS80 on 5MHz?
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> Steve
>
> I am looking for a QRP SSB/CW transceiver that will work on 5MHz. Do you
> think the MKARS80 could be easily modified for that band?
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> --
> 73
> Ian, G3NRW
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2806. RE: [mkars80] Re: MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-24 11:49:53 UTC
From: Andrew Lenton (Home)
Topic: 2802 Message: 2806

Hi,

As both 8 MHz and 10 MHz are high side mix, you will still end up with LSB, looking at the circuit double sideband is generated the filter will reduce the bandwidth to 3Khz, and the sideband you get will depends on the frequency of the reference oscillator, whether it is below or above the filter frequency. The sideband could them be inverted depending on the VFO frequency later on.

I am sure Steve is better placed to explain, I have not seen a block diagram.

BR

Andrew

From: mkars80@... [mailto:mkars80@...] On Behalf
Of Howard
Sent: Wednesday, April 24, 2013 11:41 AM
To: mkars80@...
Subject: [mkars80] Re: MKARS80 on 5MHz?

Hi,
I was thinking about this - now that we can have a NOV on 5MHz. However, this band is USB, and 80m is LSB. Would this cause a problem?
Steve, how about a modified schematic diagram for 5MHz/60m band?
Cheers, Howard G6LXK

--- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk> ,
"steve@... <mailto:steve%40radio-kits.co.uk> " <steve@...>
wrote:
>
> Change it to 8MHz perhaps?
> Steve
>
>
>
> ----- Reply message -----
> From: "Andrew Lenton \(shack\)" <a@... <mailto:a%40lenton.org> >
> To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk> >
> Subject: [mkars80] MKARS80 on 5MHz?
> Date: Tue, Apr 23, 2013 17:49
>
>
> Dear Ian,
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> The IF is 10 MHz, so not ideal, double the input frequency
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> BR
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> Andrew
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> From: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
[mailto:mkars80@... <mailto:mkars80%40yahoogroups.co.uk>] On
Behalf
> Of Ian Wade G3NRW
> Sent: 23 April 2013 10:34
> To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> Subject: [mkars80] MKARS80 on 5MHz?
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> Steve
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> Ian, G3NRW
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2807. Re: [mkars80] Re: MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-24 11:59:40 UTC
From: steve@radio-kits.co.uk
Topic: 2807 Message: 2807

A four pole ladder filter with shunt capacitors doesn't have an optimum stopband for USB use. You either need more poles or change it to so the crystals are shunt with capacitive coupling. Sorry but as the market is limited I won't be taking it further, more important is a radio for 20 and 40M. Steve G6ALU ----- Reply message ----- From: "Andrew Lenton \(Home\)" To: Subject: [mkars80] Re: MKARS80 on 5MHz? Date: Wed, Apr 24, 2013 12:49 Hi, As both 8 MHz and 10 MHz are high side mix, you will still end up with LSB, looking at the circuit double sideband is generated the filter will reduce the bandwidth to 3Khz, and the sideband you get will depends on the frequency of the reference oscillator, whether it is below or above the filter frequency. The sideband could them be inverted depending on the VFO frequency later on. I am sure Steve is better placed to explain, I have not seen a block diagram. BR Andrew From: mkars80@... [mailto:mkars80@...] On Behalf Of Howard Sent: Wednesday, April 24, 2013 11:41 AM To: mkars80@... Subject: [mkars80] Re: MKARS80 on 5MHz? Hi, I was thinking about this - now that we can have a NOV on 5MHz. However, this band is USB, and 80m is LSB. Would this cause a problem? Steve, how about a modified schematic diagram for 5MHz/60m band? Cheers, Howard G6LXK --- In mkars80@... , "steve@... " wrote: > > Change it to 8MHz perhaps? > Steve > > > > ----- Reply message ----- > From: "Andrew Lenton \(shack\)" > > To: > > Subject: [mkars80] MKARS80 on 5MHz? > Date: Tue, Apr 23, 2013 17:49 > > > Dear Ian, > > > > The IF is 10 MHz, so not ideal, double the input frequency > > > > BR > > > > Andrew > > > > From: mkars80@... [mailto:mkars80@...] On Behalf > Of Ian Wade G3NRW > Sent: 23 April 2013 10:34 > To: mkars80@... > Subject: [mkars80] MKARS80 on 5MHz? > > > > > > Steve > > I am looking for a QRP SSB/CW transceiver that will work on 5MHz. Do you > think the MKARS80 could be easily modified for that band? > > -- > 73 > Ian, G3NRW > > > > > > [Non-text portions of this message have been removed] > > > > ------------------------------------ > > Yahoo! Groups Links > > > > > > [Non-text portions of this message have been removed] > [Non-text portions of this message have been removed] ------------------------------------ Yahoo! Groups Links [Non-text portions of this message have been removed]

2808. Re: [mkars80] Re: MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-24 12:23:39 UTC
From: Malcolm Payne
Topic: 2802 Message: 2808

Hi Steve Are you working on 20 or 40m product along MKARS80 lines? Just wondering KRs Malcolm Malcolm -----Original Message----- From: "steve@..." Sender: mkars80@... Date: Wed, 24 Apr 2013 12:59:40 To: Reply-To: mkars80@... Subject: Re: [mkars80] Re: MKARS80 on 5MHz? A four pole ladder filter with shunt capacitors doesn't have an optimum stopband for USB use. You either need more poles or change it to so the crystals are shunt with capacitive coupling. Sorry but as the market is limited I won't be taking it further, more important is a radio for 20 and 40M. Steve G6ALU ----- Reply message ----- From: "Andrew Lenton \(Home\)" To: Subject: [mkars80] Re: MKARS80 on 5MHz? Date: Wed, Apr 24, 2013 12:49 Hi, As both 8 MHz and 10 MHz are high side mix, you will still end up with LSB, looking at the circuit double sideband is generated the filter will reduce the bandwidth to 3Khz, and the sideband you get will depends on the frequency of the reference oscillator, whether it is below or above the filter frequency. The sideband could them be inverted depending on the VFO frequency later on. I am sure Steve is better placed to explain, I have not seen a block diagram. BR Andrew From: mkars80@... [mailto:mkars80@...] On Behalf Of Howard Sent: Wednesday, April 24, 2013 11:41 AM To: mkars80@... Subject: [mkars80] Re: MKARS80 on 5MHz? Hi, I was thinking about this - now that we can have a NOV on 5MHz. However, this band is USB, and 80m is LSB. Would this cause a problem? Steve, how about a modified schematic diagram for 5MHz/60m band? Cheers, Howard G6LXK --- In mkars80@... , "steve@... " wrote: > > Change it to 8MHz perhaps? > Steve > > > > ----- Reply message ----- > From: "Andrew Lenton \(shack\)" > > To: > > Subject: [mkars80] MKARS80 on 5MHz? > Date: Tue, Apr 23, 2013 17:49 > > > Dear Ian, > > > > The IF is 10 MHz, so not ideal, double the input frequency > > > > BR > > > > Andrew > > > > From: mkars80@... [mailto:mkars80@...] On Behalf > Of Ian Wade G3NRW > Sent: 23 April 2013 10:34 > To: mkars80@... > Subject: [mkars80] MKARS80 on 5MHz? > > > > > > Steve > > I am looking for a QRP SSB/CW transceiver that will work on 5MHz. Do you > think the MKARS80 could be easily modified for that band? > > -- > 73 > Ian, G3NRW > > > > > [Non-text portions of this message have been removed] > > > > ------------------------------------ > > Yahoo! Groups Links > > > > > > [Non-text portions of this message have been removed] > [Non-text portions of this message have been removed] ------------------------------------ Yahoo! Groups Links [Non-text portions of this message have been removed] [Non-text portions of this message have been removed]

2809. Re: [mkars80] Re: MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-24 13:05:29 UTC
From: steve@...
Topic: 2802 Message: 2809

Malcolm, Yes I have been for some time, problem is though trying to satisfy every ones wishes! I know there are many who won't attempt SMT (surface mount technology) but I, and probably many others have been pleasently suprised at how few issues there have been with the Hunter SDR construction, several first time SMT constructors have demonstrated that its within their grasp. Through hole component availabilty is getting poor - this technology isn't in widespread use any more. Here are some questions that I've been asking myself; 1. Single band or multi-band? If multi how many bands. 2. Conventional, SMT or a mix of both? Modern DDS and VFO chips (Si570) are only available in SMT. 3. Conventional superhet or SDR? SDR will require SMT to do a decent job. 4. What sort of VFO? LC, DDS, Si570... 5. Output power? QRP is <5W but 10-20W is more useful. 6. What cost model? Low cost like the MKARS80 or a premium product? Several ideas are spawned by these questions; 1. A QRP transceiver which can be built for any band, say up to 18MHz. Fixed side-band ("normal" for the chosen band), CW and SSB, audio derived AGC, simple VFO, internal speaker and space for internal batteries and through hole construction.This would probably cost 50% more than the MKARS80. 2. A QRP transceiver with a few bands of constructors choice, up to 30MHz. Higher output power ~10W, CW and LSB / USB, DDS or Si570 tuned (Si570 preffered). Audio derived AGC, internal speaker and space for internal batteries. Would probably need to be in SMT.... Those are my ideas but can't promiss anything will come of it. Steve G6ALU with On 2013-04-24 13:23, Malcolm Payne wrote: > Hi Steve > > Are you working on 20 or 40m product along MKARS80 lines? > > Just wondering > > KRs > Malcolm > Malcolm > > -----Original Message----- > From: "steve@..." > Sender: mkars80@... > Date: Wed, 24 Apr 2013 12:59:40 > To: > Reply-To: mkars80@... > Subject: Re: [mkars80] Re: MKARS80 on 5MHz? > > A four pole ladder filter with shunt capacitors doesn't have an > optimum stopband for USB use. You either need more poles or change it > to so the crystals are shunt with capacitive coupling. > > Sorry but as the market is limited I won't be taking it further, more > important is a radio for 20 and 40M. > > Steve G6ALU > > > > ----- Reply message ----- > From: "Andrew Lenton \(Home\)" > To: > Subject: [mkars80] Re: MKARS80 on 5MHz? > Date: Wed, Apr 24, 2013 12:49 > > > Hi, > > > > As both 8 MHz and 10 MHz are high side mix, you will still end up with > LSB, > looking at the circuit double sideband is generated the filter will > reduce > the bandwidth to 3Khz, and the sideband you get will depends on the > frequency of the reference oscillator, whether it is below or above > the > filter frequency. The sideband could them be inverted depending on the > VFO > frequency later on. > > > > I am sure Steve is better placed to explain, I have not seen a block > diagram. > > > > BR > > > > Andrew > > > > From: mkars80@... [mailto:mkars80@...] On > Behalf > Of Howard > Sent: Wednesday, April 24, 2013 11:41 AM > To: mkars80@... > Subject: [mkars80] Re: MKARS80 on 5MHz? > > > > > > Hi, > I was thinking about this - now that we can have a NOV on 5MHz. > However, > this band is USB, and 80m is LSB. Would this cause a problem? > Steve, how about a modified schematic diagram for 5MHz/60m band? > Cheers, Howard G6LXK > > --- In mkars80@... > , > "steve@... " > > wrote: >> >> Change it to 8MHz perhaps? >> Steve >> >> >> >> ----- Reply message ----- >> From: "Andrew Lenton \(shack\)" >> > >> To: > >> Subject: [mkars80] MKARS80 on 5MHz? >> Date: Tue, Apr 23, 2013 17:49 >> >> >> Dear Ian, >> >> >> >> The IF is 10 MHz, so not ideal, double the input frequency >> >> >> >> BR >> >> >> >> Andrew >> >> >> >> From: mkars80@... > [mailto:mkars80@... >] On > Behalf >> Of Ian Wade G3NRW >> Sent: 23 April 2013 10:34 >> To: mkars80@... >> Subject: [mkars80] MKARS80 on 5MHz? >> >> >> >> >> >> Steve >> >> >> I am looking for a QRP SSB/CW transceiver that will

work on 5MHz. Do >> you >> think the MKARS80 could be easily modified for that band? >> >> -- >> 73 >> Ian, G3NRW >> >> >> >> >> >> [Non-text portions of this message have been removed] >> >> >> >> ---------- >> >> Yahoo! Groups Links >> >> >> >> >> >> [Non-text portions of this message have been removed] >> > > > > > > [Non-text portions of this message have been removed] > > > > ---------- > > Yahoo! Groups Links > > > > > > [Non-text portions of this message have been removed] > > > > > [Non-text portions of this message have been removed] > > > > ---------- > > Yahoo! Groups Links > > >

2810. Re: [mkars80] Re: MKARS80 on ☐5MHz?

Yahoo group: mkars80
Date: 2013-04-24 14:52:04 UTC
From: john boast
Topic: 2802 Message: 2810

As a feedback Steve, I would like a multiband transceiver say 20, 30, 40 metres CW/SSB or CW only - built in keyer option - surface mount no problem - not needing a computer to use it - part populated board available if required - power switchable up to 10 watts - digital vfo if noise is acceptable - built in loudspeaker - internal space for batteries and antenna tuner (not necessarily auto - a readily available case to fit it all in - digital display.

Will this do for now?

73

Stuart Boast
G3WDL

From: "steve@..." <steve@radio-kits.co.uk>
To: mkars80@...
Sent: Wednesday, 24 April 2013, 14:05
Subject: Re: [mkars80] Re: MKARS80 on ☐5MHz?

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2811. RE: [mkars80] Re: MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-24 15:47:51 UTC
From: Andrew Lenton (Home)
Topic: 2802 Message: 2811

Hi, I would just like to add my voice that the hunter was a dream to build and worked from switch on, I use 3.5X and 4X reading glasses to mount the SM components and a fine temp controlled soldering iron. 73, I look forward to more products. From: mkars80@... [mailto:mkars80@...] On Behalf Of steve@... Sent: Wednesday, April 24, 2013 2:05 PM To: mkars80@... Subject: Re: [mkars80] Re: MKARS80 on 5MHz? Malcolm, Yes I have been for some time, problem is though trying to satisfy every ones wishes! I know there are many who won't attempt SMT (surface mount technology) but I, and probably many others have been pleasently suprised at how few issues there have been with the Hunter SDR construction, several first time SMT constructors have demonstrated that its within their grasp. Through hole component availabilty is getting poor - this technology isn't in widespread use any more. Here are some questions that I've been asking myself; 1. Single band or multi-band? If multi how many bands. 2. Conventional, SMT or a mix of both? Modern DDS and VFO chips (Si570) are only available in SMT. 3. Conventional superhet or SDR? SDR will require SMT to do a decent job. 4. What sort of VFO? LC, DDS, Si570... 5. Output power? QRP is <5W but 10-20W is more useful. 6. What cost model? Low cost like the MKARS80 or a premium product? Several ideas are spawned by these questions; 1. A QRP transceiver which can be built for any band, say up to 18MHz. Fixed side-band ("normal" for the chosen band), CW and SSB, audio derived AGC, simple VFO, internal speaker and space for internal batteries and through hole construction.This would probably cost 50% more than the MKARS80. 2. A QRP transceiver with a few bands of constructors choice, up to 30MHz. Higher output power ~10W, CW and LSB / USB, DDS or Si570 tuned (Si570 preffered). Audio derived AGC, internal speaker and space for internal batteries. Would probably need to be in SMT.... Those are my ideas but can't promiss anything will come of it. Steve G6ALU with On 2013-04-24 13:23, Malcolm Payne wrote: > Hi Steve > > Are you working on 20 or 40m product along MKARS80 lines? > > Just wondering > > KRs > Malcolm > Malcolm > > -----Original Message----- > From: "steve@... " > > Sender: mkars80@yahoogroups.co.uk > Date: Wed, 24 Apr 2013 12:59:40 > To: > > Reply-To: mkars80@... > Subject: Re: [mkars80] Re: MKARS80 on 5MHz? > > A four pole ladder filter with shunt capacitors doesn't have an > optimum stopband for USB use. You either need more poles or change it > to so the crystals are shunt with capacitive coupling. > > Sorry but as the market is limited I won't be taking it further, more > important is a radio for 20 and 40M. > > Steve G6ALU > > > > ----- Reply message ----- > From: "Andrew Lenton \(Home\)" > > To: > > Subject: [mkars80] Re: MKARS80 on 5MHz? > Date: Wed, Apr 24, 2013 12:49 > > > > Hi, > > > > As both 8 MHz and 10 MHz are high side mix, you will still end up with > LSB, > looking at the circuit double sideband is generated the filter will > reduce > the bandwidth to 3Khz, and the sideband you get will depends on the > > frequency of the reference oscillator, whether it is below or above > the > filter frequency. The sideband could them be inverted depending on the > VFO > frequency later on. > > > > > I am sure Steve is better placed to explain, I have not seen a block > diagram. > > > > > BR > > > > Andrew > > > > From: mkars80@... [mailto:mkars80@...] On > Behalf > Of Howard > Sent: Wednesday, April 24, 2013 11:41 AM > To: mkars80@... > Subject: [mkars80] Re: MKARS80 on 5MHz? > > > > > > Hi, > I was thinking about this - now that we can have a NOV on 5MHz. > However, > this band is USB, and 80m is LSB. Would this cause a problem? > Steve, how about a modified schematic diagram for 5MHz/60m band? > Cheers, Howard G6LXK > > --- In mkars80@yahoogroups.co.uk > , > > "steve@... " > > > wrote: >> >> Change it to 8MHz perhaps? >> Steve >> >> >> >> ----- Reply message ----- >> From: "Andrew Lenton \(shack\)"

>> > >> To: > >> Subject: [mkars80] MKARS80 on 5MHz? >> Date: Tue, Apr 23, 2013 17:49 >> >> >> Dear Ian, >> >> >> >> The IF is 10 MHz, so not ideal, double the input frequency >> >> >> >> BR >> >> >> >> Andrew >> >> >> >> From: mkars80@... > [mailto:mkars80@... >] On > Behalf >> Of Ian Wade G3NRW >> Sent: 23 April 2013 10:34 >> To: mkars80@yahoogroups.co.uk >> Subject: [mkars80] MKARS80 on 5MHz? >> >> >> >> >> >> Steve >> >> I am looking for a QRP SSB/CW transceiver that will work on 5MHz. Do >> you >> think the MKARS80 could be easily modified for that band? >> >> -- >> 73 >> Ian, G3NRW >> >> >> >> >> >> [Non-text portions of this message have been removed] >> >> >> >> ---------- >> >> Yahoo! Groups Links >> >> >> >> >> >> [Non-text portions of this message have been removed] >> > > > > > > [Non-text portions of this message have been removed] > > > > ---------- > > Yahoo! Groups Links > > > > > > [Non-text portions of this message have been removed] > > > > > [Non-text portions of this message have been removed] > > > > ---------- > > Yahoo! Groups Links > > > [Non-text portions of this message have been removed]

2812. Re: [mkars80] Re: MKARS80 on ☐5MHz?

Yahoo group: mkars80
Date: 2013-04-24 15:49:21 UTC
From: steve@...
Topic: 2802 Message: 2812

Stuart,

How much would you be wiling to pay? Thinking on using an Si570 for flexibility but they aren't cheap... cheap DDS won't go very high in frequency and also worried about spurs.

Steve

On 2013-04-24 15:52, john boast wrote:
> As a feedback Steve, I would like a multiband transceiver say 20, 30,
> 40 metres CW/SSB or CW only - built in keyer option - surface mount no
> problem - not needing a computer to use it - part populated board
> available if required - power switchable up to 10 watts - digital vfo
> if noise is acceptable - built in loudspeaker - internal space for
> batteries and antenna tuner (not necessarily auto - a readily
> available case to fit it all in - digital display.
>
> Will this do for now?
>
> 73
>
> Stuart Boast
> G3WDL
>
>
> _____
> From: "steve@..." <steve@...>
> To: mkars80@...
> Sent: Wednesday, 24 April 2013, 14:05
> Subject: Re: [mkars80] Re: MKARS80 on ☐5MHz?
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2813. Re: [mkars80] Re: MKARS80 on ☐5MHz?

Yahoo group: mkars80
Date: 2013-04-24 18:01:40 UTC
From: Malcolm Payne
Topic: 2802 Message: 2813

Hi Steve

I'm fine with John's input except:

1, CW only: there are many other CW only products (kits), so SSB + CW would do it for me.
2, Partial population (SMT) if possible sounds like a good option, but I'm going to take the Hunter SDR plunge soon to gain experience.
3, Pricing: if the kit was around £100ish that would be good.

The MKARS has a very good brand in the market and I have seen many people talk about a 40/20m variant. A proper kit would probably sell well leveraging the MKAR80 experience.

That's my tupppence worth.

KRs
M
Malcolm

-----Original Message-----
From: john boast <stuartboast@...>
Sender: mkars80@...
Date: Wed, 24 Apr 2013 15:52:04
To: mkars80@...<mkars80@...>; steve@radio-kits.co.uk<steve@...>
Reply-To: mkars80@...
Subject: Re: [mkars80] Re: MKARS80 on ☐5MHz?

As a feedback Steve, I would like a multiband transceiver say 20, 30, 40 metres CW/SSB or CW only - built in keyer option - surface mount no problem - not needing a computer to use it - part populated board available if required - power switchable up to 10 watts - digital vfo if noise is acceptable - built in loudspeaker - internal space for batteries and antenna tuner (not necessarily auto - a readily available case to fit it all in - digital display.

Will this do for now?

73

Stuart Boast
G3WDL

From: "steve@..." <steve@...>
To: mkars80@...
Sent: Wednesday, 24 April 2013, 14:05
Subject: Re: [mkars80] Re: MKARS80 on ☐5MHz?

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2814. Re: [mkars80] Re: MKARS80 on ☐☐5MHz?

Yahoo group: mkars80
Date: 2013-04-24 20:01:47 UTC
From: john boast
Topic: 2802 Message: 2814

£100 ish and if the phase noise is acceptable go with the Si570 - plug in modular construction would allow for blanking plugs and later extension of facilities - some people have small electronic keyer modules already etc. In short maybe a development kit with an overall vision and ability to purchase addons as money is available.

I have an mkars80 with cw option and it pleases me.

Stuart Boast
G3WDL

_____

From: "steve@..." <steve@radio-kits.co.uk>
To: mkars80@...
Sent: Wednesday, 24 April 2013, 16:49
Subject: Re: [mkars80] Re: MKARS80 on ☐☐5MHz?

Stuart,

How much would you be wiling to pay? Thinking on using an Si570 for flexibility but they aren't cheap... cheap DDS won't go very high in frequency and also worried about spurs.

Steve

On 2013-04-24 15:52, john boast wrote:
> As a feedback Steve, I would like a multiband transceiver say 20, 30,
> 40 metres CW/SSB or CW only - built in keyer option - surface mount no
> problem - not needing a computer to use it - part populated board
> available if required - power switchable up to 10 watts - digital vfo
> if noise is acceptable - built in loudspeaker - internal space for
> batteries and antenna tuner (not necessarily auto - a readily
> available case to fit it all in - digital display.
>
> Will this do for now?
>
> 73
>
> Stuart Boast
> G3WDL
>
>
> _____
> From: "mailto:steve%40radio-kits.co.uk" <mailto:steve%40radio-kits.co.uk>
> To: mailto:mkars80%40yahoogroups.co.uk
> Sent: Wednesday, 24 April 2013, 14:05
> Subject: Re: [mkars80] Re: MKARS80 on ☐5MHz?

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2815. Re: [mkars80] Re: MKARS80 on ☐☐5MHz ?

Yahoo group: mkars80
Date: 2013-04-25 06:56:04 UTC
From: steve@...
Topic: 2802 Message: 2815

Hi Stuart,

I've thought about modular construction before but it has its problems - if the PCBs are hard wired the radio performance is beyond my control, really depends how the constructor packages it. Each module means a separate PCB to tool and purchase, this would add to costs considerably. If its a motherboard daughterboard design the they will all need screening... adjacent vertical PCBs tend to couple into each other.

You can see I don't like multi-PCB designs!

Steve

On 2013-04-24 21:01, john boast wrote:
> £100 ish and if the phase noise is acceptable go with the Si570 -
> plug in modular construction would allow for blanking plugs and later
> extension of facilities - some people have small electronic keyer
> modules already etc. In short maybe a development kit with an overall
> vision and ability to purchase addons as money is available.
>
> I have an mkars80 with cw option and it pleases me.
>
> Stuart Boast
> G3WDL
>
>
> _____
> From: "steve@..." <steve@...>
> To: mkars80@...
> Sent: Wednesday, 24 April 2013, 16:49
> Subject: Re: [mkars80] Re: MKARS80 on ☐☐5MHz?
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>
> Stuart,
>
> How much would you be wiling to pay? Thinking on using an Si570 for
> flexibility but they aren't cheap... cheap DDS won't go very high in
> frequency and also worried about spurs.
>
> Steve
>
> On 2013-04-24 15:52, john boast wrote:
>> As a feedback Steve, I would like a multiband transceiver say 20, 30,

>> 40 metres CW/SSB or CW only - built in keyer option - surface mount
>> no
>> problem - not needing a computer to use it - part populated board
>> available if required - power switchable up to 10 watts - digital vfo
>> if noise is acceptable - built in loudspeaker - internal space for
>> batteries and antenna tuner (not necessarily auto - a readily
>> available case to fit it all in - digital display.
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>> Will this do for now?
>>
>> 73
>>
>> Stuart Boast
>> G3WDL
>>
>>
>> _____
>> From: "mailto:steve%40radio-kits.co.uk"
>> <mailto:steve%40radio-kits.co.uk>
>> To: mailto:mkars80%40yahoogroups.co.uk
>> Sent: Wednesday, 24 April 2013, 14:05
>> Subject: Re: [mkars80] Re: MKARS80 on □5MHz?
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2816. Re: [mkars80] Re: MKARS80 on 5MHz?

Yahoo group: mkars80
Date: 2013-04-25 10:57:17 UTC
From: Norman Dennett
Topic: 2802 Message: 2816

Hi Steve,
My vote would be for
Both SSB and CW.
Multi band, choice of, say, three from 40 to 10.My choice would be 30, 17, 24. We are licensed in South Africa to use 30 for SSB during daylight hours.
Mix of both SMT and TH. I found SMT quite straight forward, you've just got to bite the bullet! You must also have the right tools and thin solder with silver. Lots of light.
Conventional Superhet.
VFO Si750, LCD readout etc.
AGC audio derived.
Output 10 - 20 W
Premium product with sensitive, stable receiver.
Complete kit with case etc.
Price 150 to 200 Pounds.

I would also be interested in a 40 and 20 version of the MKARS80.
Looks like you are going to be busy!
73's

Norman
ZS6CVF

--
This message has been scanned for viruses and
dangerous content by Pinpoint, and is
believed to be clean.

[Non-text portions of this message have been removed]

2817. Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-25 21:20:31 UTC
From: Steve Drury
Topic: 2802 Message: 2817

Thanks for your input Norman, I've changed the thread name to something more appropriate..

I don't think 20W is very practical when running from internal batteries, I was thinking of 8 - 10 AA sized NiMh. The highest capacity appear to be 2850mAh although I don't know if that's achievable in practice.

Steve

On 25/04/2013 11:57, Norman Dennett wrote:
> Hi Steve,
> My vote would be for
> Both SSB and CW.
> Multi band, choice of, say, three from 40 to 10.My choice would be 30, 17, 24. We are licensed in South Africa to use 30 for SSB during daylight hours.
> Mix of both SMT and TH. I found SMT quite straight forward, you've just got to bite the bullet! You must also have the right tools and thin solder with silver. Lots of light.
> Conventional Superhet.
> VFO Si750, LCD readout etc.
> AGC audio derived.
> Output 10 - 20 W
> Premium product with sensitive, stable receiver.
> Complete kit with case etc.
> Price 150 to 200 Pounds.
>
> I would also be interested in a 40 and 20 version of the MKARS80.
> Looks like you are going to be busy!
> 73's
>
> Norman
> ZS6CVF
>
>

2818. Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-26 13:16:17 UTC
From: Mark
Topic: 2802 Message: 2818

Hi Steve,

*As much SMT as possible -- after much construction involving both, SMT is far superior and my assembly time is at least 1/3 less with SMT parts. Yes just use something like 4-5X reading glasses and fine solder/fine tip. No silly lead forming, stuffing, clipping, etc yea!

* CW + SSB would be great.

* 10W CW using push-pull as it's more efficient I think than single-ended.

* No internal speaker please -- if it's big enough to sound good then it takes too much space, if it's small to save space it sounds chintzy.

* A choice of two bands if it's a good savings over three, otherwise three bands.

* Internal batteries I'm not sure, there are very good Li-Ion packs around too or some may already have gel cells...

* Price around $200 if possible? Does the SIS make the band-choice options a lot easier to implement? If so then maybe the price has to go higher?

Thank you Steve,

73,

Mark/n7eku

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Thanks for your input Norman, I've changed the thread name to something
> more appropriate..
>
> I don't think 20W is very practical when running from internal
> batteries, I was thinking of 8 - 10 AA sized NiMh. The highest capacity
> appear to be 2850mAh although I don't know if that's achievable in practice.
>
> Steve
>
> On 25/04/2013 11:57, Norman Dennett wrote:
> > Hi Steve,
> > My vote would be for
> > Both SSB and CW.
> > Multi band, choice of, say, three from 40 to 10.My choice would be 30, 17, 24. We are licensed in South Africa to use 30 for SSB during daylight hours.
> > Mix of both SMT and TH. I found SMT quite straight forward, you've just got to bite the bullet! You must also have the right tools and thin solder with silver. Lots of light.
> > Conventional Superhet.

> > VFO Si750, LCD readout etc.
> > AGC audio derived.
> > Output 10 - 20 W
> > Premium product with sensitive, stable receiver.
> > Complete kit with case etc.
> > Price 150 to 200 Pounds.
> >
> > I would also be interested in a 40 and 20 version of the MKARS80.
> > Looks like you are going to be busy!
> > 73's
> >
> > Norman
> > ZS6CVF
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>

2819. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-26 16:42:07 UTC
From: Steve Drury
Topic: 2802 Message: 2819

Hi Mark,
I've made some comments below...

On 26/04/2013 14:16, Mark wrote:
> Hi Steve,
>
> *As much SMT as possible -- after much construction involving both, SMT is far superior and my assembly time is at least 1/3 less with SMT parts. Yes just use something like 4-5X reading glasses and fine solder/fine tip. No silly lead forming, stuffing, clipping, etc yea!
I agree - as long as the parts are a reasonable size.
>
> * CW + SSB would be great.
I think CW is a necesssity now.
>
> * 10W CW using push-pull as it's more efficient I think than single-ended.
Not sure if its more efficient but it does allow for a less effective
LPF as the second harmonic is much reduced with a balanced output down
side is its more expensive.
>
> * No internal speaker please -- if it's big enough to sound good then it takes too much space, if it's small to save space it sounds chintzy.
Tough, I want one! I want a station in a box; plug in an aerial and off
you go. There wouldn't be a need for you to fit speaker or batter, its
your choice.
>
> * A choice of two bands if it's a good savings over three, otherwise three bands.
>
> * Internal batteries I'm not sure, there are very good Li-Ion packs around too or some may already have gel cells...
I've got a cheap high power LiPo pack - written on it is /"Always charge
on a concrete surface where there are no flamable objects within 10 feet
of the charging area."/ That worried me a little!
>
> * Price around $200 if possible? Does the SIS make the band-choice options a lot easier to implement? If so then maybe the price has to go higher?
>
>
Not sure of the price yet, I need to get a lot further before I have an
idea...
Steve G6ALU

[Non-text portions of this message have been removed]

2820. Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-27 05:32:03 UTC
From: Mark
Topic: 2802 Message: 2820

Hi Steve,

Yes for sure in the SMD size. I always try to buy in the 1206 to 0805 size ranges.

Yeah I wasn't sure on efficiency, but for sure better harmonics control. The IRF510's are pretty cheap, but I guess there would be a need for an extra core for the supply choke.

Would it be tough to make the CW real carrier wave (not audio injection on SSB) on a combined SSB/CW rig?

For the speaker, the boss always wins hihi! My hearing is just not so great so I tend to always have headphones around.

Yes even big bad Boeing has trouble with Li fires. Their new Dreamliner battery box is bomb proof/fire proof with titanium tubed venting to the exterior of the plane! On second thought, maybe HiMH are better!!!

73,

Mark.

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Hi Mark,
> I've made some comments below...
>
> On 26/04/2013 14:16, Mark wrote:
> > Hi Steve,
> >
> > *As much SMT as possible -- after much construction involving both, SMT is far superior and my assembly time is at least 1/3 less with SMT parts. Yes just use something like 4-5X reading glasses and fine solder/fine tip. No silly lead forming, stuffing, clipping, etc yea!
> I agree - as long as the parts are a reasonable size.
> >
> > * CW + SSB would be great.
> I think CW is a necesssity now.
> >
> > * 10W CW using push-pull as it's more efficient I think than single-ended.
> Not sure if its more efficient but it does allow for a less effective
> LPF as the second harmonic is much reduced with a balanced output down
> side is its more expensive.
> >
> > * No internal speaker please -- if it's big enough to sound good then it takes too much space, if it's small to save space it sounds chintzy.
> Tough, I want one! I want a station in a box; plug in an aerial and off
> you go. There wouldn't be a need for you to fit speaker or batter, its

> your choice.
> >
> > * A choice of two bands if it's a good savings over three, otherwise three bands.
> >
> > * Internal batteries I'm not sure, there are very good Li-Ion packs around too or some may already have gel cells...
> I've got a cheap high power LiPo pack - written on it is /"Always charge
> on a concrete surface where there are no flamable objects within 10 feet
> of the charging area."/ That worried me a little!
> >
> > * Price around $200 if possible? Does the SIS make the band-choice options a lot easier to implement? If so then maybe the price has to go higher?
> >
> >
> Not sure of the price yet, I need to get a lot further before I have an
> idea...
> Steve G6ALU
>
>
> [Non-text portions of this message have been removed]
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2821. (no subject)

Yahoo group: mkars80
Date: 2013-04-27 08:14:41 UTC
From: CHRIS ILES
Topic: 2821 Message: 2821

Hi Phillip,

Thanks for the tip, I'll take a look. As I say the receiver is working but needs a really good aerial and should be a lot more sensitive. I've rewound the mixer transformers and checked the low pass filter for errors. Also checked all soldered joints and looked for shorts, broken tracks etc.

I'm certain I will get it going properly!

Regards, Chris. G0VOE.

[Non-text portions of this message have been removed]

2822. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-27 08:25:55 UTC
From: Steve G6ALU
Topic: 2802 Message: 2822

Mark,
Not sure how IRF510s will perform at 10M as their input capacitance isquite high, would probably require either an extra stage of gain or useof RD16HHF1s.
Would be proper carrier CW probably from a separate carrier oscillator so I don't have to pull the BFO crystal.
Steve

Sent from Samsung tablet

-------- Original message --------
From: Mark <mark7311@gmail.com>
Date: 27/04/2013 06:32 (GMT+00:00)
To: mkars80@...
Subject: [mkars80] Re: Thoughts on new radio kit

Hi Steve,

Yes for sure in the SMD size. I always try to buy in the 1206 to 0805 size ranges.

Yeah I wasn't sure on efficiency, but for sure better harmonics control. The IRF510's are pretty cheap, but I guess there would be a need for an extra core for the supply choke.

Would it be tough to make the CW real carrier wave (not audio injection on SSB) on a combined SSB/CW rig?

For the speaker, the boss always wins hihi! My hearing is just not so great so I tend to always have headphones around.

Yes even big bad Boeing has trouble with Li fires. Their new Dreamliner battery box is bomb proof/fire proof with titanium tubed venting to the exterior of the plane! On second thought, maybe HiMH are better!!!

73,

Mark.

--- In mkars80@..., Steve Drury <steve@...> wrote:
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> Hi Mark,
> I've made some comments below...
>
> On 26/04/2013 14:16, Mark wrote:
> > Hi Steve,
> >
> > *As much SMT as possible -- after much construction involving both, SMT is far superior and my assembly time is at least 1/3 less with SMT parts. Yes just use something like 4-5X reading glasses and fine solder/fine tip. No silly lead forming, stuffing, clipping, etc yea!

> I agree - as long as the parts are a reasonable size.
> >
> > * CW + SSB would be great.
> I think CW is a necesssity now.
> >
> > * 10W CW using push-pull as it's more efficient I think than single-ended.
> Not sure if its more efficient but it does allow for a less effective
> LPF as the second harmonic is much reduced with a balanced output down
> side is its more expensive.
> >
> > * No internal speaker please -- if it's big enough to sound good then it takes too much space, if it's small to save space it sounds chintzy.
> Tough, I want one! I want a station in a box; plug in an aerial and off
> you go. There wouldn't be a need for you to fit speaker or batter, its
> your choice.
> >
> > * A choice of two bands if it's a good savings over three, otherwise three bands.
> >
> > * Internal batteries I'm not sure, there are very good Li-Ion packs around too or some may already have gel cells...
> I've got a cheap high power LiPo pack - written on it is /"Always charge
> on a concrete surface where there are no flamable objects within 10 feet
> of the charging area."/ That worried me a little!
> >
> > * Price around $200 if possible? Does the SIS make the band-choice options a lot easier to implement? If so then maybe the price has to go higher?
> >
> >
> Not sure of the price yet, I need to get a lot further before I have an
> idea...
> Steve G6ALU
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2823. Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-28 21:56:48 UTC
From: Peter
Topic: 2802 Message: 2823

Please NO smt

73

GM8JCF

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Thanks for your input Norman, I've changed the thread name to something
> more appropriate..
>
> I don't think 20W is very practical when running from internal
> batteries, I was thinking of 8 - 10 AA sized NiMh. The highest capacity
> appear to be 2850mAh although I don't know if that's achievable in practice.
>
> Steve
>
> On 25/04/2013 11:57, Norman Dennett wrote:
> > Hi Steve,
> > My vote would be for
> > Both SSB and CW.
> > Multi band, choice of, say, three from 40 to 10.My choice would be 30, 17, 24. We are licensed in South Africa to use 30 for SSB during daylight hours.
> > Mix of both SMT and TH. I found SMT quite straight forward, you've just got to bite the bullet! You must also have the right tools and thin solder with silver. Lots of light.
> > Conventional Superhet.
> > VFO Si750, LCD readout etc.
> > AGC audio derived.
> > Output 10 - 20 W
> > Premium product with sensitive, stable receiver.
> > Complete kit with case etc.
> > Price 150 to 200 Pounds.
> >
> > I would also be interested in a 40 and 20 version of the MKARS80.
> > Looks like you are going to be busy!
> > 73's
> >
> > Norman
> > ZS6CVF
> >
> >
>

2824. Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-29 00:21:00 UTC
From: Mark
Topic: 2802 Message: 2824

Hi Peter,

I have to say I have been blessed with good vision and steady hands, and do fine work for a living so SMT seems easier to me than for others.

Have you tried soldering the very biggest size SMT devices? The bodies and pads where you solder these are about the same size as a 1n4148 diode and it's typical solder pad.

Maybe if the design could only use the biggest SMT parts, then it could be do-able by more builders?

73,

Mark.

--- In mkars80@..., "Peter" <g8jcf@...> wrote:
>
> Please NO smt
>
> 73
>
> GM8JCF
>
> --- In mkars80@..., Steve Drury <steve@> wrote:
> >
> > Thanks for your input Norman, I've changed the thread name to something
> > more appropriate..
> >
> > I don't think 20W is very practical when running from internal
> > batteries, I was thinking of 8 - 10 AA sized NiMh. The highest capacity
> > appear to be 2850mAh although I don't know if that's achievable in practice.
> >
> > Steve
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> > On 25/04/2013 11:57, Norman Dennett wrote:
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> > > Mix of both SMT and TH. I found SMT quite straight forward, you've just got to bite the bullet! You must also have the right tools and thin solder with silver. Lots of light.
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> > > Premium product with sensitive, stable receiver.
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> > > Looks like you are going to be busy!
> > > 73's
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> > > Norman
> > > ZS6CVF
> > >
> > >
> >
>

2825. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-29 06:16:22 UTC
From: steve@radio-kits.co.uk
Topic: 2825 Message: 2825

Use of SMT is going to be inevitable due to component availability, my main (low cost) supplier has just made a through hole 1nF obsolete!
If you look at the care (eyesight) required to solder the MKARS80 it isn't much different to 0805 components. Using 1206 parts is difficult due to limited availability on some values.
Steve G6ALU.

----- Reply message -----
From: "Mark" <mark7311@...>
To: <mkars80@...>
Subject: [mkars80] Re: Thoughts on new radio kit
Date: Mon, Apr 29, 2013 01:21

Hi Peter,

I have to say I have been blessed with good vision and steady hands, and do fine work for a living so SMT seems easier to me than for others.

Have you tried soldering the very biggest size SMT devices? The bodies and pads where you solder these are about the same size as a 1n4148 diode and it's typical solder pad.

Maybe if the design could only use the biggest SMT parts, then it could be do-able by more builders?

73,

Mark.

--- In mkars80@..., "Peter" <g8jcf@...> wrote:
>
> Please NO smt
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> 73
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> --- In mkars80@..., Steve Drury <steve@> wrote:
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> > Thanks for your input Norman, I've changed the thread name to something
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> > I don't think 20W is very practical when running from internal
> > batteries, I was thinking of 8 - 10 AA sized NiMh. The highest capacity
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> >
> > Steve
> >

> > On 25/04/2013 11:57, Norman Dennett wrote:
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

2826. Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-29 20:26:54 UTC
From: Peter
Topic: 2802 Message: 2826

Hi Mark

I used to be able to easily solder SMT until about 2 years ago - using Optivisor type equipment - but my eyesight is starting to fade and it now takes me much longer - still I guess if the only way to get decent performance is by using SMD then do be it, perhaps SMD where necessary, but THP otherwise ?

73

Peter (GM8JCF)

--- In mkars80@..., "Mark" <mark7311@...> wrote:
>
> Hi Peter,
>
> I have to say I have been blessed with good vision and steady hands, and do fine work for a living so SMT seems easier to me than for others.
>
> Have you tried soldering the very biggest size SMT devices? The bodies and pads where you solder these are about the same size as a 1n4148 diode and it's typical solder pad.
>
> Maybe if the design could only use the biggest SMT parts, then it could be do-able by more builders?
>
> 73,
>
>
> Mark.
>
>
> --- In mkars80@yahoogroups.co.uk, "Peter" <g8jcf@> wrote:
> >
> > Please NO smt
> >
> > 73
> >
> > GM8JCF
> >
> > --- In mkars80@..., Steve Drury <steve@> wrote:
> > >
> > > Thanks for your input Norman, I've changed the thread name to something
> > > more appropriate..
> > >
> > > I don't think 20W is very practical when running from internal
> > > batteries, I was thinking of 8 - 10 AA sized NiMh. The highest capacity
> > > appear to be 2850mAh although I don't know if that's achievable in practice.

> > >
> > > Steve
> > >
> > > On 25/04/2013 11:57, Norman Dennett wrote:
> > > > Hi Steve,
> > > > My vote would be for
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> > > > Norman
> > > > ZS6CVF
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2827. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-29 22:15:59 UTC
From: L L bahr
Topic: 2802 Message: 2827

The day there are only SMD kits is the day I stop building kits. End of discussion. Life is to short for putting up with them. I've got too many other enjoyable things to do with my time then put a SMD kit together.

Lee, w0vt

----- Original Message -----

Hi Mark

I used to be able to easily solder SMT until about 2 years ago - using Optivisor type equipment - but my eyesight is starting to fade and it now takes me much longer - still I guess if the only way to get decent performance is by using SMD then do be it, perhaps SMD where necessary, but THP otherwise ?

73

Peter (GM8JCF)

[Non-text portions of this message have been removed]

2828. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-29 22:32:49 UTC
From: Cillian 64
Topic: 2802 Message: 2828

I have the advantage of being young enough to remember learning to solder through-hole. I would argue that the majority of surface mount soldering is not much more difficult than through-hole, it just seems very difficult because it is different. Doing surface mount soldering feels similar to when I watch people learning to do through-hole soldering for the first time. It's not going to be easy at first, but with practice and someone to show you techniques, you can learn.

I would love new radio kits which use surface mount components to offer new features and greater performance than would be possible in a purely through-hole kit.

David M0TNR
On Apr 29, 2013 11:16 PM, "L L bahr" <pulsarxp@...> wrote:

>
>
>
> The day there are only SMD kits is the day I stop building kits. End of
> discussion. Life is to short for putting up with them. I've got too many
> other enjoyable things to do with my time then put a SMD kit together.
>
>
>
> Lee, w0vt
>
>
> ----- Original Message -----
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> performance is by using SMD then do be it, perhaps SMD where necessary, but
> THP otherwise ?
>
> 73
>
> Peter (GM8JCF)

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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

2829. Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-30 02:31:42 UTC
From: Mark
Topic: 2802 Message: 2829

Hi!

--- In mkars80@..., Cillian 64 <cillian64@...> wrote:
>
> I have the advantage of being young enough to remember learning to solder
> through-hole.

Well me too :-) I was taught by a friendly volunteer to help me get my Webalos electronics merit badge!

I would argue that the majority of surface mount soldering
> is not much more difficult than through-hole, it just seems very difficult
> because it is different. Doing surface mount soldering feels similar to
> when I watch people learning to do through-hole soldering for the first
> time. It's not going to be easy at first, but with practice and someone to
> show you techniques, you can learn.

I had trouble at first for sure, but you learn things to make it easy as you practice... High mag reading glasses and good serrated tweezers (and some practice) helped a lot. I saw another fellow on the web who uses that sticky poster tack stuff an "glues" the parts before hand with a small blob of the stuff under the part -- seems to work very well.

I also I eventually figured out to elevate my board on a box so I don't have to crane my neck down when wearing my high magnification glasses. Also, that way I can rest my elbows on the bench and my wrists on the board to keep everything steady.

>
> I would love new radio kits which use surface mount components to offer new
> features and greater performance than would be possible in a purely
> through-hole kit.

They already do as you can't get many of the new best integrated circuits (like the DDS chips) in socketable DIP packages anymore.

I think one thing that would help is if the kits could contain a few extras of the generic "penny parts" like resistors and capacitors. This would help I think with some of the nervousness that comes from fear of having that one part "zing" to no man's land and put your project to a screeching halt :-p

Oh well, just some thoughts on the subject based on my experiences so far...

73,

Mark.

>
> David M0TNR
> On Apr 29, 2013 11:16 PM, "L L bahr" <pulsarxp@...> wrote:

>
> >
> >
> >
> > The day there are only SMD kits is the day I stop building kits. End of
> > discussion. Life is to short for putting up with them. I've got too many
> > other enjoyable things to do with my time then put a SMD kit together.
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> >
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> > Lee, w0vt
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> > ----- Original Message -----
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> > Hi Mark
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> > I used to be able to easily solder SMT until about 2 years ago - using
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> > performance is by using SMD then do be it, perhaps SMD where necessary, but
> > THP otherwise ?
> >
> > 73
> >
> > Peter (GM8JCF)
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> >
> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
>

2830. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-30 05:00:39 UTC
From: Pat Jones
Topic: 2802 Message: 2830

Hi Steve

Perhaps a option would be to have the chips which may a problem to some be pre-installed.
Myself I would rather do them.
Look forward to your next kit with SMT components.

Pat

From: "steve@..." <steve@...>
To: mkars80@yahoogroups.co.uk
Sent: Monday, 29 April 2013, 7:16
Subject: Re: [mkars80] Re: Thoughts on new radio kit

Use of SMT is going to be inevitable due to component availability, my main (low cost) supplier has just made a through hole 1nF obsolete!
If you look at the care (eyesight) required to solder the MKARS80 it isn't much different to 0805 components. Using 1206 parts is difficult due to limited availability on some values.
Steve G6ALU.

----- Reply message -----
From: "Mark" <mark7311@...>
To: <mkars80@yahoogroups.co.uk>
Subject: [mkars80] Re: Thoughts on new radio kit
Date: Mon, Apr 29, 2013 01:21

Hi Peter,

I have to say I have been blessed with good vision and steady hands, and do fine work for a living so SMT seems easier to me than for others.

Have you tried soldering the very biggest size SMT devices? The bodies and pads where you solder these are about the same size as a 1n4148 diode and it's typical solder pad.

Maybe if the design could only use the biggest SMT parts, then it could be do-able by more builders?

73,

Mark.

--- In mkars80@..., "Peter" <g8jcf@...> wrote:
>
> Please NO smt
>
> 73
>

> GM8JCF
>
> --- In mkars80@..., Steve Drury <steve@> wrote:
> >
> > Thanks for your input Norman, I've changed the thread name to something
> > more appropriate..
> >
> > I don't think 20W is very practical when running from internal
> > batteries, I was thinking of 8 - 10 AA sized NiMh. The highest capacity
> > appear to be 2850mAh although I don't know if that's achievable in practice.
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> > Steve
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> > On 25/04/2013 11:57, Norman Dennett wrote:
> > > Hi Steve,
> > > My vote would be for
> > > Both SSB and CW.
> > > Multi band, choice of, say, three from 40 to 10.My choice would be 30, 17, 24. We are licensed in South Africa to use 30 for SSB during daylight hours.
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> > > Looks like you are going to be busy!
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> > > Norman
> > > ZS6CVF
> > >
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> > >
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

2831. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-30 05:30:47 UTC
From: bbj@...
Topic: 2802 Message: 2831

> What is an SMD kit ? I am only 82 years old and do not know what you are
talking about.
> Barry
>
> The day there are only SMD kits is the day I stop building kits.Â End of
> discussion.Â Life is to short for putting up with them.Â I've got too
> many other enjoyable things to do with my time then put a SMD kit
> together.
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>
> Lee, w0vt
>
>
> ----- Original Message -----
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> Hi Mark
>
> I used to be able to easily solder SMT until about 2 years ago - using
> Optivisor type equipment - but my eyesight is starting to fade and it now
> takes me much longer - still I guess if the only way to get decent
> performance is by using SMD then do be it, perhaps SMD where necessary,
> but THP otherwise ?
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> 73
>
> Peter (GM8JCF)
>
>
> [Non-text portions of this message have been removed]
>
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2832. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-30 05:35:33 UTC
From: L L bahr
Topic: 2802 Message: 2832

Barry,

You don't want to know! Trust me on this.

Lee, w0vt

----- Original Message -----

> What is an SMD kit ? I am only 82 years old and do not know what you are
talking about.
> Barry
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

2833. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-30 06:23:08 UTC
From: steve@...
Topic: 2802 Message: 2833

Barry,

SMD stands for "surface mount device", SMT stands for "surface mount technology". These type of components mount directly on the copper PCB and don't have leads which go through the board to be soldered on the other side. SMD is used to assemble things like mobile phones and modern PCs, but they use VERY small components - we don't have any intention of going that small!

The mention of SMD always divides the amateur community much like transistors did in the valve (tube) era. I know from selling the Hunter kit that age isn't a barrier and unless your eyesight is very poor this isn't either. Most of us use magnifying glasses to assemble and check the work but then I do with through hole.

Throughout this trail of emails the benefits of SMD have been mentioned; component availability, quicker to assemble (no bending of wires and cutting of leads, more reproducible, lower cost, extra functionality... what have I forgotten? Against is the fact they are smaller and look quite bland not having pretty identifying colours!

As these devices have greater functionality - for example the Si570, a complete VFO 3-160MHz with 30PPM stability - the number of components for equal functionality is reduced and chances of building right first time increased.

Any how, that’s my opinion!

Steve G6ALU

On 2013-04-30 06:35, L L bahr wrote:
> Barry,
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> You don't want to know! Trust me on this.
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2834. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-30 07:29:35 UTC
From: Norman Dennett
Topic: 2802 Message: 2834

Hi Steve,
I absolutly agree. If we had never had through hole components we'ed all be soldering away and think nothing of it.
I find it's not difficult once you get the hang of it, there's a learning curve like everything new, it is very different and you have to have the correct tools, materials and conditions. Just as you cannot mend the hole in a bucket with a 1mm tip, so you can't solder SMD components with an iron you stick in the fire! A "bit" exaggerated but I'm sure you get my drift!
There are plenty of posts on the web about the technique of mounting smd's and I'm sure Steve will include simple instructions without getting into the over complicated methods of doing the job.
A modern, high performance design using state of the art components. Go for it!
Consider this the first order.

Norman
ZS6CVF
----- Original Message -----
From: steve@...
To: mkars80@yahoogroups.co.uk
Sent: Tuesday, April 30, 2013 8:23 AM
Subject: Re: [mkars80] Re: Thoughts on new radio kit

Barry,

SMD stands for "surface mount device", SMT stands for "surface mount technology". These type of components mount directly on the copper PCB and don't have leads which go through the board to be soldered on the other side. SMD is used to assemble things like mobile phones and modern PCs, but they use VERY small components - we don't have any intention of going that small!

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As these devices have greater functionality - for example the Si570, a complete VFO 3-160MHz with 30PPM stability - the number of components for equal functionality is reduced and chances of building right first

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Any how, that’s my opinion!

Steve G6ALU

On 2013-04-30 06:35, L L bahr wrote:
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>> takes me much longer - still I guess if the only way to get decent
>> performance is by using SMD then do be it, perhaps SMD where
>> necessary,
>> but THP otherwise ?
>>
>> 73
>>
>> Peter (GM8JCF)
>>
>>
>> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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This message has been scanned for viruses and
dangerous content by Pinpoint, and is
believed to be clean.

[Non-text portions of this message have been removed]

2835. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-30 08:35:18 UTC
From: Barry Lovius
Topic: 2802 Message: 2835

Many thanks for your most helpful reply
Barry

On 30 Apr 2013, at 08:23, steve@... wrote:

> Barry,
>
> SMD stands for "surface mount device", SMT stands for "surface mount
> technology". These type of components mount directly on the copper PCB
> and don't have leads which go through the board to be soldered on the
> other side. SMD is used to assemble things like mobile phones and modern
> PCs, but they use VERY small components - we don't have any intention of
> going that small!
>
> The mention of SMD always divides the amateur community much like
> transistors did in the valve (tube) era. I know from selling the Hunter
> kit that age isn't a barrier and unless your eyesight is very poor this
> isn't either. Most of us use magnifying glasses to assemble and check
> the work but then I do with through hole.
>
> Throughout this trail of emails the benefits of SMD have been
> mentioned; component availability, quicker to assemble (no bending of
> wires and cutting of leads, more reproducible, lower cost, extra
> functionality... what have I forgotten? Against is the fact they are
> smaller and look quite bland not having pretty identifying colours!
>
> As these devices have greater functionality - for example the Si570, a
> complete VFO 3-160MHz with 30PPM stability - the number of components
> for equal functionality is reduced and chances of building right first
> time increased.
>
> Any how, that’s my opinion!
>
> Steve G6ALU
>
> On 2013-04-30 06:35, L L bahr wrote:
> > Barry,
> > >
> > >
> > >
> > > You don't want to know! Trust me on this.
> > >
> > >
> > >
> > > Lee, w0vt

> >
> >
> >
> > ----- Original Message -----
> >
> >
> >
> >
> >
> >
> >
> >> What is an SMD kit ? I am only 82 years old and do not know what you
> >> are
> > talking about.
> >> Barry
> >>
> >> The day there are only SMD kits is the day I stop building kits.Â
> >> End of
> >> discussion.Â Life is to short for putting up with them.Â I've got
> >> too
> >> many other enjoyable things to do with my time then put a SMD kit
> >> together.
> >>
> >>
> >>
> >> Lee, w0vt
> >>
> >>
> >> ----- Original Message -----
> >>
> >>
> >> Â
> >>
> >>
> >>
> >>
> >>
> >> Hi Mark
> >>
> >> I used to be able to easily solder SMT until about 2 years ago -
> >> using
> >> Optivisor type equipment - but my eyesight is starting to fade and it
> >> now
> >> takes me much longer - still I guess if the only way to get decent
> >> performance is by using SMD then do be it, perhaps SMD where
> >> necessary,
> >> but THP otherwise ?
> >>
> >> 73
> >>
> >> Peter (GM8JCF)

> >>
> >>
> >> [Non-text portions of this message have been removed]
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> > [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

2836. Re: [mkars80] Re: Thoughts on new radio kit

Yahoo group: mkars80
Date: 2013-04-30 11:15:29 UTC
From: David Lacey
Topic: 2802 Message: 2836

Steve is absolutely right in what he says about smt/smd construction.
Yes it can be difficult.....only if you have never tried it!
Yes it does pose problems with the very small components.....only if you have never used them!
Yes construction methods are different.....you have to adapt your tools/facilities to cope with the change!
Yes eyesight can be a problem.....but there are many many aids on the market to help you overcome this problem!

I am a retiree, and have and still do make my own surface mount boards, I can still use a soldering iron and can
solder in the smallest of components without a problem.....so I say to all you doubting Thomases out there:
GIVE IT A TRY.....you might just find it is not a difficult as you think !!!

Find a supplier of say a small audio amp kit (something cheap) and purchase a kit and build it, once mastered
(like anything else) your confidence grows and things are`nt nearly as difficult as you thought.
Dave
G4JBE

From: "steve@radio-kits.co.uk" <steve@...>
To: mkars80@...
Sent: Tuesday, 30 April 2013, 7:23
Subject: Re: [mkars80] Re: Thoughts on new radio kit

Barry,

SMD stands for "surface mount device", SMT stands for "surface mount technology". These type of components mount directly on the copper PCB and don't have leads which go through the board to be soldered on the other side. SMD is used to assemble things like mobile phones and modern PCs, but they use VERY small components - we don't have any intention of going that small!

The mention of SMD always divides the amateur community much like transistors did in the valve (tube) era. I know from selling the Hunter kit that age isn't a barrier and unless your eyesight is very poor this isn't either. Most of us use magnifying glasses to assemble and check the work but then I do with through hole.

Throughout this trail of emails the benefits of SMD have been mentioned; component availability, quicker to assemble (no bending of wires and cutting of leads, more reproducible, lower cost, extra functionality... what have I forgotten? Against is the fact they are

smaller and look quite bland not having pretty identifying colours!

As these devices have greater functionality - for example the Si570, a complete VFO 3-160MHz with 30PPM stability - the number of components for equal functionality is reduced and chances of building right first time increased.

Any how, that’s my opinion!

Steve G6ALU

Reply to sender | Reply to group | Reply via web post | Start a new topic Messages in this topic (28)
Recent Activity: * New Members 1
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Switch to: Text-Only, Daily Digest • Unsubscribe • Terms of Use
.

[Non-text portions of this message have been removed]

2837. Re: [mkars80] Digest Number 752

Yahoo group: mkars80
Date: 2013-05-01 09:26:08 UTC
From: Brian Jones
Topic: 2837 Message: 2837

One problem with SMT for beginners is that there are no really cheap kits to practice with. I wanted to do an "Introduction to SMT" project with my club last year and could not find a kit which was both useful and cheap (under £5/$8).

Might be worth thinking of also producing a simple audio amp, CW oscillator (or whatever) kit so those of us who are OK with SMT can teach the techniques to those less confident.

Still haven't found a good technique for finding dropped SMT components on my cluttered shack floor though :-)

[Non-text portions of this message have been removed]

2838. Re: [mkars80] Digest Number 752

Yahoo group: mkars80
Date: 2013-05-01 15:18:18 UTC
From: Barry Lovius
Topic: 2837 Message: 2838

Work over a tea tray , the raised edges stop bits falling onto the floor!
Barry

On 1 May 2013, at 11:26, Brian Jones <g0ukb@...> wrote:

> One problem with SMT for beginners is that there are no really cheap kits
> to practice with. I wanted to do an "Introduction to SMT" project with my
> club last year and could not find a kit which was both useful and cheap
> (under £5/$8).
>
> Might be worth thinking of also producing a simple audio amp, CW oscillator
> (or whatever) kit so those of us who are OK with SMT can teach the
> techniques to those less confident.
>
> Still haven't found a good technique for finding dropped SMT components on
> my cluttered shack floor though :-)
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

2839. Re: [mkars80] Digest Number 752

Yahoo group: mkars80
Date: 2013-05-01 20:44:14 UTC
From: David Turner
Topic: 2837 Message: 2839

I'm mulling the idea of putting together some very small cheap, simple, surface mount kits when I get some free time. After a while of looking around, I couldn't find any basic surface mount kits with decent professionally made boards (This is really important - bare copper with no solder mask is a pain when you're trying to learn to solder!).

If anyone would be interested in something like this, drop me an email off-list so I can gauge interest - I'll get back to you if my ideas come to fruition.

David M0TNR

On 01/05/13 10:26, Brian Jones wrote:
> One problem with SMT for beginners is that there are no really cheap kits
> to practice with. I wanted to do an "Introduction to SMT" project with my
> club last year and could not find a kit which was both useful and cheap
> (under ?5/$8).
>
> Might be worth thinking of also producing a simple audio amp, CW oscillator
> (or whatever) kit so those of us who are OK with SMT can teach the
> techniques to those less confident.
>
> Still haven't found a good technique for finding dropped SMT components on
> my cluttered shack floor though :-)
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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2840. Re: [mkars80] Digest Number 752

Yahoo group: mkars80
Date: 2013-05-01 21:01:41 UTC
From: Steve G6ALU
Topic: 2837 Message: 2840

I would also like to but for me the kit would have to have a purpose.....
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: David Turner <cillian64@...>
Date: 01/05/2013 21:44 (GMT+00:00)
To: mkars80@...
Cc: Brian Jones <g0ukb@....uk>
Subject: Re: [mkars80] Digest Number 752

I'm mulling the idea of putting together some very small cheap, simple,
surface mount kits when I get some free time. After a while of looking
around, I couldn't find any basic surface mount kits with decent
professionally made boards (This is really important - bare copper with
no solder mask is a pain when you're trying to learn to solder!).

If anyone would be interested in something like this, drop me an email
off-list so I can gauge interest - I'll get back to you if my ideas come
to fruition.

David M0TNR

On 01/05/13 10:26, Brian Jones wrote:
> One problem with SMT for beginners is that there are no really cheap kits
> to practice with. I wanted to do an "Introduction to SMT" project with my
> club last year and could not find a kit which was both useful and cheap
> (under £5/$8).
>
> Might be worth thinking of also producing a simple audio amp, CW oscillator
> (or whatever) kit so those of us who are OK with SMT can teach the
> techniques to those less confident.
>
> Still haven't found a good technique for finding dropped SMT components on
> my cluttered shack floor though :-)
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

2841. Re: [mkars80] Digest Number 752

Yahoo group: mkars80
Date: 2013-05-02 04:55:48 UTC
From: Norman Dennett
Topic: 2837 Message: 2841

Hi Steve,
What about a Noise generator and/or an RF Probe?
That would be simple and very useful.

Norman.
ZS6CVF
----- Original Message -----
From: Steve G6ALU
To: mkars80@...
Sent: Wednesday, May 01, 2013 11:01 PM
Subject: Re: [mkars80] Digest Number 752

I would also like to but for me the kit would have to have a purpose.....
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------

--
This message has been scanned for viruses and
dangerous content by Pinpoint, and is
believed to be clean.

[Non-text portions of this message have been removed]

2842. Re: Digest Number 752

Yahoo group: mkars80
Date: 2013-05-02 06:56:18 UTC
From: Mark
Topic: 2837 Message: 2842

Hi,

A two-tone test generator would be handy for folks to set their PA's up. It could also double as a tone injector for testing audio circuits. And if you included a switched lm386 at the end then it also be a code-practice oscillator.

Elecraft wants $70 for theirs which is kind of a lot condsidering it is just an op-amp, transistor, and a few passive components.

Another pretty handy device is a capacitor ESR meter. I made one with an analog meter, but it probably could be done well with a PIC and LCD too.

A modern grid-dip meter would be pretty cool to do too (especially if it had a frequency counter in it).

73,

Mark.

--- In mkars80@..., "Norman Dennett" <dennett@...> wrote:
>
> Hi Steve,
> What about a Noise generator and/or an RF Probe?
> That would be simple and very useful.
>
> Norman.
> ZS6CVF
> ----- Original Message -----
> From: Steve G6ALU
> To: mkars80@...
> Sent: Wednesday, May 01, 2013 11:01 PM
> Subject: Re: [mkars80] Digest Number 752
>
>
>
> I would also like to but for me the kit would have to have a purpose.....
> Steve G6ALU
>
> Sent from Samsung tablet
>
> -------- Original message --------
>
>
> --
> This message has been scanned for viruses and
> dangerous content by Pinpoint, and is
> believed to be clean.

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>
> [Non-text portions of this message have been removed]
>

2843. Re: ESR Meter suggestion

Yahoo group: mkars80
Date: 2013-05-02 07:34:24 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 2837 Message: 2843

As regards the ESR meter suggestion, I was going to build one recently until I found a superb ready built LCD & AVR based unit on Fleabay for under £15 including P&P that does ESR, transistor and fet testing and lead identification, inductor measurement and resistor measurement. It wasn't worth warming the soldering iron up at that price :-)

Slim Haines G4IPZ

2844. Re: ESR Meter suggestion

Yahoo group: mkars80
Date: 2013-05-02 20:13:59 UTC
From: Mark
Topic: 2837 Message: 2844

Yep,

It's difficult (monitarily) to beat the low production and labor prices in China.

73,

Mark.

--- In mkars80@..., "Naqoyqatsi (aka the ICM)" <special@...> wrote:
>
>
> As regards the ESR meter suggestion, I was going to build one recently until I found a superb ready built LCD & AVR based unit on Fleabay for under £15 including P&P that does ESR, transistor and fet testing and lead identification, inductor measurement and resistor measurement. It wasn't worth warming the soldering iron up at that price :-)
>
> Slim Haines G4IPZ
>

2845. RE: [mkars80] Digest Number 752

Yahoo group: mkars80
Date: 2013-05-11 14:13:15 UTC
From: Ray Stringfellow
Topic: 2837 Message: 2845

Brian,

Use an old pair of tights/stockings over the end of your vac
cleaner nozzle and clean the floor, all the smd parts are caught in the
tights.

Ray

Still haven't found a good technique for finding dropped SMT components on
my cluttered shack floor though :-)

[Non-text portions of this message have been removed]

2847. Re: [mkars80] salutations..

Yahoo group: mkars80
Date: 2013-06-04 20:06:26 UTC
From: Andrew
Topic: 2846 Message: 2847

Hmmm have you been hacked?

On Tue, 2013-06-04 at 17:38 +0100, David Lacey wrote:
>
> http://www.totalrenos.com/rfpsracunxv.php/public_html/rfpsracunxv.php
>
> [Non-text portions of this message have been removed]
>
>
>
>
>

2848. Hijacked account

Yahoo group: mkars80
Date: 2013-06-04 20:31:34 UTC
From: David Lacey
Topic: 2848 Message: 2848

Gentlemen
It appears that my account has been hacked into and mail NOT from me sent out containing a possibly malicious link.
I can only apologize, I have changed passwords etc and tightened security settings.
Hopefully this will end this problem.
Regards
Dave....G4JBE

[Non-text portions of this message have been removed]

2849. Re: Hijacked account

Yahoo group: mkars80
Date: 2013-06-04 20:50:33 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 2848 Message: 2849

Sorry to hear that Dave but going by the number of virussed link carrying mails I have had this evening from yahoo accounts and assorted groups I'd say Yahoo has been the victim of a yet another massive attack.

Slim G4IPZ

--- In mkars80@..., David Lacey <g4jbe@...> wrote:
>
> Gentlemen
> It appears that my account has been hacked into and mail NOT from me sent out containing
> a possibly malicious link.
> I can only apologize, I have changed passwords etc and tightened security settings.
> Hopefully this will end this problem.
> Regards
> Dave....G4JBE
>
> [Non-text portions of this message have been removed]
>

2850. Mkars 40 or 20m

Yahoo group: mkars80
Date: 2013-06-18 23:13:51 UTC
From: Daniel
Topic: 2628 Message: 2850

Hello Group!. I was looking for a HF transceiver kit with VFO stabilisation and frequency readout. Guys at
http://groups.yahoo.com/group/HuffPuffVFO/
pointed me to the MKARS80. I read the info about it and it looks a wise design. But I am interested in higher bands. I did a search on your Group and found a Sep 14, 2012 post from F5mpw with the same wish in the Subject.
So, has anyone tried to modify the MKARS for 7 or 14MHz?. I don't mean 28MHz because its IF would make image rejection unadequate.
Many thanks!
73s
Daniel Perez, LW1ECP

2851. MKARS80 in "Wireless at War" book

Yahoo group: mkars80
Date: 2013-06-25 08:14:00 UTC
From: Matthew
Topic: 2851 Message: 2851

I just saw the book "Wireless at War" in the New Books section of my library and picked it up for a peruse. On page 241 there is a photograph of the PCB of a radio and it immediately struck me as being very familiar.

On closer inspection it is an MKARS80 V3. It is in a chapter entitled "Technological Change: From Valves to Transistors and Integrated Circuits".

I thought people here may be interested.

The books details are:

Title: Wireless at war : developments in military and clandestine radio 1895-2012
Author: Peter R. Jensen.
Publisher: Kenthurst, N.S.W. : Rosenberg Publishing Pty Ltd Kenthurst, N.S.W.
ISBN: 9781922013477

Publishers Website: http://www.rosenbergpub.com.au/handleProduct.asp?id=163&catid=2
Amazon: http://www.amazon.com/Wireless-at-War-Peter-Jensen/dp/1922013471/ref=sr_1_3?ie=UTF8&qid=1372147932&sr=8-3&keywords=wireless+at+war

Looks like it has only just been published.

Matt
VK6MR

2852. RE: [mkars80] MKARS80 in "Wireless at War" book

Yahoo group: mkars80
Date: 2013-06-25 10:02:30 UTC
From: David White
Topic: 2851 Message: 2852

that book WIRELESS AT WAR is quite good, but he is selling it at ?23. i met Mr Jensen a few weeks ago as he was over here from australia to give many copies of his books to the RSGB . i have yet to discover how much the RSGB will sell it for with members discount and he didnt know. but well worth a good read from an aussies point of view. de G3ZPA

NNNN

To: mkars80@...
From: scytale30@...
Date: Tue, 25 Jun 2013 08:14:00 +0000
Subject: [mkars80] MKARS80 in "Wireless at War" book

I just saw the book "Wireless at War" in the New Books section of my library and picked it up for a peruse. On page 241 there is a photograph of the PCB of a radio and it immediately struck me as being very familiar.

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ISBN: 9781922013477

Publishers Website: http://www.rosenbergpub.com.au/handleProduct.asp?id=163&catid=2
Amazon: http://www.amazon.com/Wireless-at-War-Peter-Jensen/dp/1922013471/ref=sr_1_3?ie=UTF8&qid=1372147932&sr=8-3&keywords=wireless+at+war

Looks like it has only just been published.

Matt
VK6MR

[Non-text portions of this message have been removed]

2853. Re: [mkars80] MKARS80 in "Wireless at War" book

Yahoo group: mkars80
Date: 2013-06-25 11:14:11 UTC
From: John
Topic: 2851 Message: 2853

Hi

It seems to be available to order from Amazon in the UK but the price is
not fixed yet.
They are looking at £21.82 at the moment with a guarantee that if it
goes down you will be charged the lowest price.

http://www.amazon.co.uk/Wireless-at-War-Peter-Jensen/dp/1922013471/ref=sr_1_3?s=books&ie=UTF8&qid=1372158550&sr=1-3&keywords=wireless+at+war
<http://www.amazon.co.uk/Wireless-at-War-Peter-Jensen/dp/1922013471/ref=sr_1_3?s=books&ie=UTF8&qid=1372158550&sr=1-3&keywords=wireless+at+war>

73,
John.

On 25/06/2013 11:02, David White wrote:
> that book WIRELESS AT WAR is quite good, but he is selling it at £23. i met Mr Jensen a few weeks ago as he was over here from australia to give many copies of his books to the RSGB . i have yet to discover how much the RSGB will sell it for with members discount and he didnt know. but well worth a good read from an aussies point of view. de G3ZPA
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> To: mkars80@...
> From: scytale30@...
> Date: Tue, 25 Jun 2013 08:14:00 +0000
> Subject: [mkars80] MKARS80 in "Wireless at War" book
>
>

>
>
>
> I just saw the book "Wireless at War" in the New Books section of my library and picked it up for a peruse. On page 241 there is a photograph of the PCB of a radio and it immediately struck me as being very familiar.
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> ISBN: 9781922013477
>
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> Amazon: http://www.amazon.com/Wireless-at-War-Peter-Jensen/dp/1922013471/ref=sr_1_3?ie=UTF8&qid=1372147932&sr=8-3&keywords=wireless+at+war
>
> Looks like it has only just been published.
>
> Matt
> VK6MR
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[Non-text portions of this message have been removed]

2854. first start , 4,341-4,388 Hz

Yahoo group: mkars80
Date: 2013-06-25 11:19:34 UTC
From: zorge75
Topic: 2854 Message: 2854

The first start. Measuring the voltage of 5v and 8c - normal.

Without the microphone and antenna display shows the minimum maximum 4,341,615 - 4.388295.
Where to start looking for the problem?
Or to begin to connect the antenna?

2855. Re: first start , 4,341-4,388 Hz

Yahoo group: mkars80
Date: 2013-06-25 18:40:06 UTC
From: zorge75
Topic: 2854 Message: 2855

Many excuses guys - i think, i found my mistake in soldering at last. :)

--- In mkars80@..., "zorge75" <nerijusan@...> wrote:
>
> The first start. Measuring the voltage of 5v and 8c - normal.
>
> Without the microphone and antenna display shows the minimum maximum 4,341,615 - 4.388295.
> Where to start looking for the problem?
> Or to begin to connect the antenna?
>

2856. Re: [mkars80] MKARS80 in "Wireless at War" book

Yahoo group: mkars80
Date: 2013-06-26 20:40:53 UTC
From: Steve Drury
Topic: 2851 Message: 2856

Thanks for the heads up.... I will look out for a copy! (Can I read
yours Dave?!)

Steve

On 25/06/2013 09:14, Matthew wrote:
> I just saw the book "Wireless at War" in the New Books section of my library and picked it up for a peruse. On page 241 there is a photograph of the PCB of a radio and it immediately struck me as being very familiar.
>
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> ISBN: 9781922013477
>
> Publishers Website: http://www.rosenbergpub.com.au/handleProduct.asp?id=163&catid=2
> Amazon: http://www.amazon.com/Wireless-at-War-Peter-Jensen/dp/1922013471/ref=sr_1_3?ie=UTF8&qid=1372147932&sr=8-3&keywords=wireless+at+war
>
> Looks like it has only just been published.
>
> Matt
> VK6MR
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.3345 / Virus Database: 3199/6434 - Release Date: 06/23/13

>
>

2857. New Kit-Revisited

Yahoo group: mkars80
Date: 2013-07-18 14:38:26 UTC
From: Anthony
Topic: 2857 Message: 2857

Hi Steve and all.

I was thinking of building a dedicated PSK rig for 20metres.

PSK-20 as a kit was suggested, but the owner has stopped doing them.
I think he was finding support too arduous in this his retirement project.

I thought that this might be a good project for Radio-kits. It sort of follows on to the the SSB single bander. And I know Steves support is first rate.

I imagine a small Hammond type box, no controls, under a Netbook type PC or even a rasberry Pi.

Tony

2858. Re: New Kit-Revisited

Yahoo group: mkars80
Date: 2013-07-18 16:02:20 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 2857 Message: 2858

Hi Tony.

If you want a 20M kit now, 'off the shelf' so to speak I'd recommend the ILER-20 from Javier Solens EA3GCY.

I've got two MKARS80s and think they're superb but like you I wanted something for 20M.

I'd already built an ILER-40 and that was a fabulous kit and worked like a charm. The same cane be said for the ILER-20.

Whilst the idea of a netbook driving it is a nice idea there's a lot to be said for running a QRP rig with a normal display if you're doing a bit of backpacking or simply QRP foot slogging. There's a lot less to carry about.

Just my two penn'orth.

Dale (Slim) Haines G4IPZ

--- In mkars80@..., "Anthony" <tony_koeller2004@...> wrote:
>
> Hi Steve and all.
>
> I was thinking of building a dedicated PSK rig for 20metres.
>
> PSK-20 as a kit was suggested, but the owner has stopped doing them.
> I think he was finding support too arduous in this his retirement project.
>
> I thought that this might be a good project for Radio-kits. It sort of follows on to the the SSB single bander. And I know Steves support is first rate.
>
> I imagine a small Hammond type box, no controls, under a Netbook type PC or even a rasberry Pi.
>
> Tony
>

2859. Re: New Kit-Revisited

Yahoo group: mkars80
Date: 2013-07-19 07:30:21 UTC
From: Anthony
Topic: 2857 Message: 2859

Thank you Dale, I will have a look at the ILER-20.

I just liked the idea that the filters on the PSK-20 were wider than necessary for SSB and the whole PSK band was covered without tuning, everything done from the computer screen (except RF gain).
Tony (M5AGB)

--- In mkars80@..., "Naqoyqatsi (aka the ICM)" <special@...> wrote:
>
> Hi Tony.
>
> If you want a 20M kit now, 'off the shelf' so to speak I'd recommend the ILER-20 from Javier Solens EA3GCY.
>
> I've got two MKARS80s and think they're superb but like you I wanted something for 20M.
>
> I'd already built an ILER-40 and that was a fabulous kit and worked like a charm. The same cane be said for the ILER-20.
>
> Whilst the idea of a netbook driving it is a nice idea there's a lot to be said for running a QRP rig with a normal display if you're doing a bit of backpacking or simply QRP foot slogging. There's a lot less to carry about.
>
> Just my two penn'orth.
>
> Dale (Slim) Haines G4IPZ
>
>

2860. Advice Please

Yahoo group: mkars80
Date: 2013-08-18 21:58:20 UTC
From: S
Topic: 2860 Message: 2860

i got my kit Saturday 17th August
Thanks Steve
Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
the diodes were 11, 13, and 15 the 1n4148's and the transistor was Q16 BC547 Transistor. I had to remove them best i could and in the case of diode 13, and 15 mount on the underside as it was to awkward to get them back in component side, after doing this the mkars came to life it was working but just a slight hiss, now there is quite a bit of buzzing in the background amongst what i would class standard frequency noises but although hearing a few stations right in the mush I am not convinced it is working correctly. Unfortunately my freq counter decided it would no longer work so trying to get the 10mhz alignment fell to using a baofeng handheld using 100mhz fm and putting it close to the mkars adjusting C83 to leave a silent carrier on the hand held 10th harmonic not ideal but best i could do.
Question would be obviously the aforementioned is not ideal and probably a bit off 10mhz would this cause the buzzing and lack of signals ie stations on ssb , cw etc.
Im using a long random piece of wire as the antenna, but would expect more than i got, also im not over worried about setting tx up for the present due to wanting to mount the boards in a custom case where both sides will be easily got at etc for setting up.
Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception

Thanks for any Help

Simon G0MUC

2861. Re: [mkars80] Advice Please

Yahoo group: mkars80
Date: 2013-08-19 08:21:34 UTC
From: steve@radio-kits.co.uk
Topic: 2861 Message: 2861

I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
Regards,
Steve G6ALU

----- Reply message -----
From: "S" <afc007@...>
To: <mkars80@...>
Subject: [mkars80] Advice Please
Date: Sun, Aug 18, 2013 22:58

i got my kit Saturday 17th August
Thanks Steve
Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
the diodes were 11, 13, and 15 the 1n4148's and the transistor was Q16 BC547 Transistor. I had to remove them best i could and in the case of diode 13, and 15 mount on the underside as it was to awkward to get them back in component side, after doing this the mkars came to life it was working but just a slight hiss, now there is quite a bit of buzzing in the background amongst what i would class standard frequency noises but although hearing a few stations right in the mush I am not convinced it is working correctly. Unfortunately my freq counter decided it would no longer work so trying to get the 10mhz alignment fell to using a baofeng handheld using 100mhz fm and putting it close to the mkars adjusting C83 to leave a silent carrier on the hand held 10th harmonic not ideal but best i could do.
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Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception

Thanks for any Help

Simon G0MUC

Yahoo! Groups Links

[Non-text portions of this message have been removed]

2862. Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-19 10:12:45 UTC
From: S
Topic: 2860 Message: 2862

Hi Steve

yes i have desolder stuff both braid and sucker
I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.

Regards Simon G0MUC

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
> With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
> Regards,
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "S" <afc007@...>
> To: <mkars80@...>
> Subject: [mkars80] Advice Please
> Date: Sun, Aug 18, 2013 22:58
>
>
> i got my kit Saturday 17th August
> Thanks Steve
> Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
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> Question would be obviously the aforementioned is not ideal and probably a bit off 10mhz

would this cause the buzzing and lack of signals ie stations on ssb , cw etc.
> Im using a long random piece of wire as the antenna, but would expect more than i got, also im not over worried about setting tx up for the present due to wanting to mount the boards in a custom case where both sides will be easily got at etc for setting up.
> Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception
>
> Thanks for any Help
>
> Simon G0MUC
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> [Non-text portions of this message have been removed]
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2863. Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-19 18:38:28 UTC
From: S
Topic: 2860 Message: 2863

Update

I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any stations ie ssb / cw rtty which i would expect to hear

I'm at wits end lol I have checked all the coils etc literally re flowed most joints and getting no where and the fear is totally messing it up completely. I have checked the voltages all on the rx side and all seem to tally with the help file.

So im out of ideas

btw im using the net and logging onto a sdr and the band is very lively i appreciate that one will be on a full size dedicated Antenna but i would still expect the mkars to receive something of what the sdr radio which is uk based as well.

--- In mkars80@..., "S" <afc007@...> wrote:
>
> Hi Steve
>
> yes i have desolder stuff both braid and sucker
> I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
> Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.
>
> Regards Simon G0MUC
>
> --- In mkars80@..., "steve@..." <steve@> wrote:
> >
> > I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
> > With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
> > Regards,
> > Steve G6ALU
> >
> >
> >
> > ----- Reply message -----
> > From: "S" <afc007@>
> > To: <mkars80@...>
> > Subject: [mkars80] Advice Please
> > Date: Sun, Aug 18, 2013 22:58

> >
> >
> > i got my kit Saturday 17th August
> > Thanks Steve
> > Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
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> > Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception
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> > Thanks for any Help
> >
> > Simon G0MUC
> >
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> > Yahoo! Groups Links
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> > [Non-text portions of this message have been removed]
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2864. Re: [mkars80] Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-19 20:04:01 UTC
From: Steve G6ALU
Topic: 2860 Message: 2864

Best thing is to do a voltage check on Q16, if its sick then receive performance will be poor.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: S <afc007@...>
Date: 19/08/2013 11:12 (GMT+00:00)
To: mkars80@...
Subject: [mkars80] Re: Advice Please

Hi Steve

yes i have desolder stuff both braid and sucker
I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.

Regards Simon G0MUC

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
> With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
> Regards,
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "S" <afc007@...>
> To: <mkars80@...>
> Subject: [mkars80] Advice Please
> Date: Sun, Aug 18, 2013 22:58
>
>
> i got my kit Saturday 17th August
> Thanks Steve
> Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly

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> Thanks for any Help
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> Simon G0MUC
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Yahoo! Groups Links

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2865. Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-19 21:10:22 UTC
From: S
Topic: 2860 Message: 2865

Hi Ok

Emitter 7.3v
Base 3.96v
collector 3.8v

Hope that sounds ok taken in receive mode

--- In mkars80@..., Steve G6ALU <steve@...> wrote:
>
> Best thing is to do a voltage check on Q16, if its sick then receive performance will be poor.
> Steve G6ALU
>
>
>
>
> Sent from Samsung tablet
>
> -------- Original message --------
> From: S <afc007@...>
> Date: 19/08/2013 11:12 (GMT+00:00)
> To: mkars80@...
> Subject: [mkars80] Re: Advice Please
>
> Hi Steve
>
> yes i have desolder stuff both braid and sucker
> I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
> Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.
>
> Regards Simon G0MUC
>
> --- In mkars80@yahoogroups.co.uk, "steve@..." <steve@> wrote:
> >
> > I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
> > With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
> > Regards,
> > Steve G6ALU

> >
> >
> >
> > ----- Reply message -----
> > From: "S" <afc007@>
> > To: <mkars80@...>
> > Subject: [mkars80] Advice Please
> > Date: Sun, Aug 18, 2013 22:58
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> >
> > Thanks for any Help
> >
> > Simon G0MUCÂ
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2866. Re: [mkars80] Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-19 21:26:11 UTC
From: John
Topic: 2860 Message: 2866

Hi Simon

I think you mean
Collector 7.3v
Base 3.96v
Emitter 3.8v

in which case it sounds reasonable but I'm sure Steve will confirm or
deny that.

John.

On 19/08/2013 22:10, S wrote:
>
> Hi Ok
>
> Emitter 7.3v
> Base 3.96v
> collector 3.8v
>
> Hope that sounds ok taken in receive mode
>
> --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk>,
> Steve G6ALU <steve@...> wrote:
> >
> > Best thing is to do a voltage check on Q16, if its sick then receive
> performance will be poor.
> > Steve G6ALU
> >
> >
> >
> >
> > Sent from Samsung tablet
> >
> > -------- Original message --------
> > From: S <afc007@...>
> > Date: 19/08/2013 11:12 (GMT+00:00)
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> > Subject: [mkars80] Re: Advice Please
> >
> > Hi Steve
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> > yes i have desolder stuff both braid and sucker
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> >
> > Regards Simon G0MUC
> >
> > --- In mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>, "steve@..." <steve@> wrote:
> > >
> > > I think it best I send you replacement components, do you have any
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> > > Steve G6ALU
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> > >
> > >
> > > ----- Reply message -----
> > > From: "S" <afc007@>
> > > To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> > > Subject: [mkars80] Advice Please
> > > Date: Sun, Aug 18, 2013 22:58
> > >
> > >
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2867. Re: [mkars80] Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-19 21:43:46 UTC
From: Steve G6ALU
Topic: 2860 Message: 2867

Check it against the voltage chart in the build manual...doesnt sound right.
Steve

Sent from Samsung tablet

-------- Original message --------
From: John <john@...>
Date: 19/08/2013 22:26 (GMT+00:00)
To: mkars80@...
Subject: Re: [mkars80] Re: Advice Please

Hi Simon

I think you mean
Collector 7.3v
Base 3.96v
Emitter 3.8v

in which case it sounds reasonable but I'm sure Steve will confirm or
deny that.

John.

On 19/08/2013 22:10, S wrote:
>
> Hi Ok
>
> Emitter 7.3v
> Base 3.96v
> collector 3.8v
>
> Hope that sounds ok taken in receive mode
>
> --- In mkars80@... <mailto:mkars80%40yahoogroups.co.uk>,
> Steve G6ALU <steve@...> wrote:
> >
> > Best thing is to do a voltage check on Q16, if its sick then receive
> performance will be poor.
> > Steve G6ALU
> >
> >
> >
> >
> > Sent from Samsung tablet
> >
> > -------- Original message --------
> > From: S <afc007@...>

> > Date: 19/08/2013 11:12 (GMT+00:00)
> > To: mkars80@... <mailto:mkars80%40yahoogroups.co.uk>
> > Subject: [mkars80] Re: Advice Please
> >
> > Hi Steve
> >
> > yes i have desolder stuff both braid and sucker
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> had damaged the transistor hence the cause.
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> > Regards Simon G0MUC
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> > --- In mkars80@...
> <mailto:mkars80%40yahoogroups.co.uk>, "steve@..." <steve@> wrote:
> > >
> > > I think it best I send you replacement components, do you have any
> desolder braid to clear the holes with?
> > > With a long wire and gnd you should hear signals, especially in
> the evening so there may be some thing else wrong, the normal cause is
> poor joints on the transformer connections.
> > > Regards,
> > > Steve G6ALU
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "S" <afc007@>
> > > To: <mkars80@... <mailto:mkars80%40yahoogroups.co.uk>>
> > > Subject: [mkars80] Advice Please
> > > Date: Sun, Aug 18, 2013 22:58
> > >
> > >
> > > i got my kit Saturday 17th August
> > > Thanks Steve
> > > Finished Construction Today And had to Debug finding it was deaf
> but after checking all the coils I found i had put 3 diodes round the
> wrong way and one transistor, I honestly thought i was being carefull
> as well.
> > > the diodes were 11, 13, and 15 the 1n4148's and the transistor was
> Q16 BC547 Transistor. I had to remove them best i could and in the
> case of diode 13, and 15 mount on the underside as it was to awkward
> to get them back in component side, after doing this the mkars came to
> life it was working but just a slight hiss, now there is quite a bit
> of buzzing in the background amongst what i would class standard
> frequency noises but although hearing a few stations right in the mush

> I am not convinced it is working correctly. Unfortunately my freq
> counter decided it would no longer work so trying to get the 10mhz
> alignment fell to using a baofeng handheld using 100mhz fm and putting
> it close to the mkars adjusting C83 to leave a silent carrier on the
> hand held 10th harmonic not ideal but best i could do.
> > > Question would be obviously the aforementioned is not ideal and
> probably a bit off 10mhz would this cause the buzzing and lack of
> signals ie stations on ssb , cw etc.
> > > Im using a long random piece of wire as the antenna,Â but would
> expect more than i got, also im not over worried about setting tx up
> for the present due to wanting to mount the boards in a custom case
> where both sides will be easily got at etc for setting up.
> > > Anyhow some advice the diodes are not particularly neat and do not
> sit nice and flush as mounted on the underside, I reused Q16 after
> turning it round the right way but im not sure if its damaged or any
> of the bodges i mean repairs are contributing to the current reception
> > >
> > > Thanks for any Help
> > >
> > > Simon G0MUCÂ
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Yahoo! Groups Links

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2868. Re: [mkars80] Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-20 08:12:20 UTC
From: steve@radio-kits.co.uk
Topic: 2868 Message: 2868

I think it best you return it to me for service, I will only charge you return postage but turn round may be a week or two as I'm very busy at the moment.
Steve G6ALU

----- Reply message -----
From: "S" <afc007@...>
To: <mkars80@...>
Subject: [mkars80] Re: Advice Please
Date: Mon, Aug 19, 2013 19:38

Update

I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any stations ie ssb / cw rtty which i would expect to hear

I'm at wits end lol I have checked all the coils etc literally re flowed most joints and getting no where and the fear is totally messing it up completely. I have checked the voltages all on the rx side and all seem to tally with the help file.

So im out of ideas

btw im using the net and logging onto a sdr and the band is very lively i appreciate that one will be on a full size dedicated Antenna but i would still expect the mkars to receive something of what the sdr radio which is uk based as well.

--- In mkars80@..., "S" <afc007@...> wrote:
>
> Hi Steve
>
> yes i have desolder stuff both braid and sucker
> I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
> Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.
>
> Regards Simon G0MUC
>
> --- In mkars80@..., "steve@..." <steve@> wrote:
> >
> > I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
> > With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
> > Regards,

> > Steve G6ALU
> >
> >
> >
> > ----- Reply message -----
> > From: "S" <afc007@>
> > To: <mkars80@...>
> > Subject: [mkars80] Advice Please
> > Date: Sun, Aug 18, 2013 22:58
> >
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> > i got my kit Saturday 17th August
> > Thanks Steve
> > Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
> > the diodes were 11, 13, and 15 the 1n4148's and the transistor was Q16 BC547 Transistor. I had to remove them best i could and in the case of diode 13, and 15 mount on the underside as it was to awkward to get them back in component side, after doing this the mkars came to life it was working but just a slight hiss, now there is quite a bit of buzzing in the background amongst what i would class standard frequency noises but although hearing a few stations right in the mush I am not convinced it is working correctly. Unfortunately my freq counter decided it would no longer work so trying to get the 10mhz alignment fell to using a baofeng handheld using 100mhz fm and putting it close to the mkars adjusting C83 to leave a silent carrier on the hand held 10th harmonic not ideal but best i could do.
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> > Im using a long random piece of wire as the antenna, but would expect more than i got, also im not over worried about setting tx up for the present due to wanting to mount the boards in a custom case where both sides will be easily got at etc for setting up.
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Yahoo! Groups Links

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2869. Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-20 11:17:17 UTC
From: S
Topic: 2860 Message: 2869

Email Sent Steve

Simon

G0MUC

--- In mkars80@..., "steve@radio-kits.co.uk" <steve@...> wrote:
>
> I think it best you return it to me for service, I will only charge you return postage but turn round may be a week or two as I'm very busy at the moment.
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "S" <afc007@...>
> To: <mkars80@....uk>
> Subject: [mkars80] Re: Advice Please
> Date: Mon, Aug 19, 2013 19:38
>
>
> Update
>
> I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any stations ie ssb / cw rtty which i would expect to hear
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> So im out of ideas
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> btw im using the net and logging onto a sdr and the band is very lively i appreciate that one will be on a full size dedicated Antenna but i would still expect the mkars to receive something of what the sdr radio which is uk based as well.
>
>
>
> --- In mkars80@....uk, "S" <afc007@> wrote:
> >
> > Hi Steve
> >
> > yes i have desolder stuff both braid and sucker
> > I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.

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> > Regards Simon G0MUC
> >
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
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> > > Simon G0MUC
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2870. Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-22 20:14:18 UTC
From: S
Topic: 2860 Message: 2870

Hi Steve

will be sending it back, but i will leave it until after the bank holiday weekend, I presume to the address as per label on back of the original Package you sent ??

Thanks Again

G0MUC SIMON

--- In mkars80@yahoogroups.co.uk, "steve@..." <steve@...> wrote:
>
> I think it best you return it to me for service, I will only charge you return postage but turn round may be a week or two as I'm very busy at the moment.
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "S" <afc007@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: Advice Please
> Date: Mon, Aug 19, 2013 19:38
>
>
> Update
>
> I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any stations ie ssb / cw rtty which i would expect to hear
>
> I'm at wits end lol I have checked all the coils etc literally re flowed most joints and getting no where and the fear is totally messing it up completely. I have checked the voltages all on the rx side and all seem to tally with the help file.
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> So im out of ideas
>
> btw im using the net and logging onto a sdr and the band is very lively i appreciate that one will be on a full size dedicated Antenna but i would still expect the mkars to receive something of what the sdr radio which is uk based as well.
>
>
>
> --- In mkars80@..., "S" <afc007@> wrote:
> >
> > Hi Steve
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> > yes i have desolder stuff both braid and sucker

> > I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
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> >
> > Regards Simon G0MUC
> >
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
> > > With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
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> > > Steve G6ALU
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "S" <afc007@>
> > > To: <mkars80@....uk>
> > > Subject: [mkars80] Advice Please
> > > Date: Sun, Aug 18, 2013 22:58
> > >
> > >
> > > i got my kit Saturday 17th August
> > > Thanks Steve
> > > Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
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2871. Re: [mkars80] Re: Advice Please

Yahoo group: mkars80
Date: 2013-08-22 20:45:14 UTC
From: Steve G6ALU
Topic: 2860 Message: 2871

Yes thats correct Simon, sorry I wasnt at the club, I didnt read my emails until it was too late...if had you could have left it with a guy I work with.

Will look at it as soon as possible, we should be at the MKARS radio rally on Sunday.

Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: S <afc007@...>
Date: 22/08/2013 21:14 (GMT+00:00)
To: mkars80@...
Subject: [mkars80] Re: Advice Please

Hi Steve

will be sending it back, but i will leave it until after the bank holiday weekend, I presume to the address as per label on back of the original Package you sent ??

Thanks Again

G0MUC SIMON

--- In mkars80@yahoogroups.co.uk, "steve@..." <steve@...> wrote:
>
> I think it best you return it to me for service, I will only charge you return postage but turn round may be a week or two as I'm very busy at the moment.
> Steve G6ALU
>
>
>
> ----- Reply message -----
> From: "S" <afc007@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: Advice Please
> Date: Mon, Aug 19, 2013 19:38
>
>
> Update
>
> I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any stations ie ssb / cw rtty which i would expect to hear
>
> I'm at wits end lol I have checked all the coils etc literally re flowed most joints and getting no where and the fear is totally messing it up completely. I have checked the voltages all on the rx side and all seem to tally with the help file.

>
> So im out of ideas
>
> btw im using the net and logging onto a sdr and the band is very lively i appreciate that one will be on a full size dedicated Antenna but i would still expect the mkars to receive something of what the sdr radio which is uk based as well.
>
>
>
> --- In mkars80@..., "S" <afc007@> wrote:
> >
> > Hi Steve
> >
> > yes i have desolder stuff both braid and sucker
> > I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
> > Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.
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> > Regards Simon G0MUC
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> > --- In mkars80@..., "steve@" <steve@> wrote:
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> > > ----- Reply message -----
> > > From: "S" <afc007@>
> > > To: <mkars80@...>
> > > Subject: [mkars80] Advice Please
> > > Date: Sun, Aug 18, 2013 22:58
> > >
> > >
> > > i got my kit Saturday 17th August
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> > > Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
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Yahoo! Groups Links

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2874. Re: [mkars80] Returned for Service

Yahoo group: mkars80
Date: 2013-09-02 21:10:10 UTC
From: Steve Drury
Topic: 2873 Message: 2874

Good evening Simon,
I've got your radio on the bench and found it receives well - I compared it with my MKARS80 to be sure, perhaps your antenna isn't adequate?

The frequency jumped between about 3.8 to 3.8MHz, not sure of the reason so will investigate further - otherwise its all set up now with a TX power of about 5W.

Will advise on the frequency issue in a day or two depending on work load.

Regards,
Steve G6ALU

On 29/08/2013 15:25, simon afc007 wrote:
> Hi Steve
>
>
>
>
>
> I have sent recorded delivery the mkars80 back for service before any further damage is done I did try rewinding one of the toroid's and got into a hell of a state things that looked fairly neat and clean have become a disaster zone.
>
>
>
> Anyhow thanks for offering to try and sort out the problem and let me know when ready to return etc then I will forward monies via paypal or however you prefer for return.
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> Regards Simon
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> G0MUC
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> To: mkars80@...
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> Email Sent Steve
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> Simon
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> --- In mkars80@..., "steve@..." <steve@...> wrote:
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>> Steve G6ALU
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>> From: "S" <afc007@...>
>> To: <mkars80@...>
>> Subject: [mkars80] Re: Advice Please
>> Date: Mon, Aug 19, 2013 19:38
>> Update
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>>> --- In mkars80@..., "steve@" <steve@> wrote:
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>>>> With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
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>>>> Thanks Steve
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>>>> Question would be obviously the aforementioned is not ideal and probably a bit off 10mhz would this cause the buzzing and lack of signals ie stations on ssb , cw etc.
>>>> Im using a long random piece of wire as the antenna, but would expect more than i got, also im not over worried about setting tx up for the present due to wanting to mount the boards in a custom case where both sides will be easily got at etc for setting up.
>>>> Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception
>>>> Thanks for any Help
>>>> Simon G0MUC
>>>> ------------------------------------
>>>> Yahoo! Groups Links

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>> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.3392 / Virus Database: 3222/6631 - Release Date: 09/02/13
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2875. Re: [mkars80] Returned for Service

Yahoo group: mkars80
Date: 2013-09-02 21:41:33 UTC
From: simon afc007
Topic: 2875 Message: 2875

Hi Steve

ok thanks it got in a bit of a mess after re winding coils etc

Iwas sure I done them correctly as well

thanks for looking at it and thanks for finishing the final tune up

im worried it got untidy and have nothing to stick the toriods down

Iwill have to work out an antenna for it it was strange even with a very long length of wire it seemed deaf I heard nothing bar heavy buzzing but I guess that could be as it was not cased / boxed I have got a box same spec as you sell size etc so will work it into that upon return.

thanks again and I hope after further investigation nothing is too amiss and it can be returned, I will await your findings and let me know about getting funds to you for the return

regards Simon

G0MUC

Sent from Windows Mail

From: Steve Drury
Sent: ☐Monday☐, ☐2☐ ☐September☐ ☐2013 ☐22☐:☐10
To: mkars80@...

Good evening Simon,
I've got your radio on the bench and found it receives well - I compared
it with my MKARS80 to be sure, perhaps your antenna isn't adequate?

The frequency jumped between about 3.8 to 3.8MHz, not sure of the reason
so will investigate further - otherwise its all set up now with a TX
power of about 5W.

Will advise on the frequency issue in a day or two depending on work load.

Regards,
Steve G6ALU

On 29/08/2013 15:25, simon afc007 wrote:
> Hi Steve
>
>
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>

>
> I have sent recorded delivery the mkars80 back for service before any further damage is done I did try rewinding one of the toroid's and got into a hell of a state things that looked fairly neat and clean have become a disaster zone.
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>
> Anyhow thanks for offering to try and sort out the problem and let me know when ready to return etc then I will forward monies via paypal or however you prefer for return.
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> Regards Simon
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> G0MUC
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> Sent from Windows Mail
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> From: S
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> Sent: ☐Tuesday☐, ☐20☐ ☐August☐ ☐2013 ☐12☐:☐17
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> To: mkars80@...
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> Email Sent Steve
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> Simon
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> G0MUC
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> --- In mkars80@..., "steve@..." <steve@...> wrote:
>
>> I think it best you return it to me for service, I will only charge you return postage but turn round may be a week or two as I'm very busy at the moment.
>> Steve G6ALU
>> ----- Reply message -----
>> From: "S" <afc007@...>
>> To: <mkars80@...>
>> Subject: [mkars80] Re: Advice Please
>> Date: Mon, Aug 19, 2013 19:38
>> Update
>> I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any stations ie ssb / cw rtty which i would expect to hear
>> I'm at wits end lol I have checked all the coils etc literally re flowed most joints and getting no where and the fear is totally messing it up completely. I have checked the voltages all on the rx side and all seem to tally with the help file.
>> So im out of ideas
>> btw im using the net and logging onto a sdr and the band is very lively i appreciate that one will be on a full size dedicated Antenna but i would still expect the mkars to receive something of what the sdr radio which is uk based as well.
>> --- In mkars80@..., "S" <afc007@> wrote:
>>> Hi Steve
>>> yes i have desolder stuff both braid and sucker
>>> I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
>>> Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.
>>> Regards Simon G0MUC
>>> --- In mkars80@..., "steve@" <steve@> wrote:
>>>> I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
>>>> With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
>>>> Regards,
>>>> Steve G6ALU
>>>> ----- Reply message -----

>>>> From: "S" <afc007@>
>>>> To: <mkars80@...>
>>>> Subject: [mkars80] Advice Please
>>>> Date: Sun, Aug 18, 2013 22:58
>>>> i got my kit Saturday 17th August
>>>> Thanks Steve
>>>> Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
>>>> the diodes were 11, 13, and 15 the 1n4148's and the transistor was Q16 BC547 Transistor. I had to remove them best i could and in the case of diode 13, and 15 mount on the underside as it was to awkward to get them back in component side, after doing this the mkars came to life it was working but just a slight hiss, now there is quite a bit of buzzing in the background amongst what i would class standard frequency noises but although hearing a few stations right in the mush I am not convinced it is working correctly. Unfortunately my freq counter decided it would no longer work so trying to get the 10mhz alignment fell to using a baofeng handheld using 100mhz fm and putting it close to the mkars adjusting C83 to leave a silent carrier on the hand held 10th harmonic not ideal but best i could do.
>>>> Question would be obviously the aforementioned is not ideal and probably a bit off 10mhz would this cause the buzzing and lack of signals ie stations on ssb , cw etc.
>>>> Im using a long random piece of wire as the antenna, but would expect more than i got, also im not over worried about setting tx up for the present due to wanting to mount the boards in a custom case where both sides will be easily got at etc for setting up.
>>>> Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception
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[Non-text portions of this message have been removed]

2876. Re: Returned for Service

Yahoo group: mkars80
Date: 2013-09-03 08:02:53 UTC
From: Naqoyqatsi (aka the ICM)
Topic: 2875 Message: 2876

Hi Simon.

As a follower of your problems you may simply (sadly!) be experiencing heavy back ground noise on 80M from a nearby PLA (network adaptor) and/or Plasma TVs.
These can make 80M unusable from their radiated noise levels.

Slim G4IPZ

2877. Re: Returned for Service

Yahoo group: mkars80
Date: 2013-09-03 09:13:40 UTC
From: S
Topic: 2875 Message: 2877

Hi Slim

Ah you have a point there, through a brick wall no more than 6 feet away we have a large plasma tv which the wife has on nearly 24 hours a day,I will have to conduct a few experiments once the mkars80 is back.
If i find anything conclusive then I'll post my findings .

Simon G0MUC

--- In mkars80@..., "Naqoyqatsi (aka the ICM)" <special@...> wrote:
>
>
> Hi Simon.
>
> As a follower of your problems you may simply (sadly!) be experiencing heavy back ground noise on 80M from a nearby PLA (network adaptor) and/or Plasma TVs.
> These can make 80M unusable from their radiated noise levels.
>
> Slim G4IPZ
>

2878. Watch Huff & Puff Live

Yahoo group: mkars80
Date: 2013-09-03 19:02:10 UTC
From: k1trb
Topic: 2878 Message: 2878

Hi

Here's something cool to watch: Huff & Puff in real time action as seen on the MKARS80.

Equipment: A 10x probe and an oscilloscope

OR

a PC soundcard oscilloscope program (like Visual Analyzer http://www.sillanumsoft.org/) and a 10x probe. Good 100MHz probes can be found cheap on eBay.

The waveform is about 10KHz so 50us per division would be about right. You can experiment. Later, when watching lock you'll want to slow down that sweep rate.

Clip the ground lead of the probe to ground on the MKARS80 (naturally). Clip the tip to R40 very near the 10MHz Test Point (TP).

Now turn on the MKARS80 and twist the tuning knob back and forth to keep it out of lock. While it's out of lock, adjust your scope so you get a nice wave form.

The Show: While the oscillator is unlocked (U), you are watching the 10KHz square wave generated by the internal pulse width modulator of the PIC processor. The control capacitor C50 and the filter resistor R40 average this wave to a DC voltage applied to the varactor Huff & Puff tuning diode D5. The average will be about 2.5V.

Now stop twisting the tuning knob and let the MKARS80 lock the frequency (+). You will see pulses going up and going down. The up ones are positive kicks to raise the voltage on C50 and the down ones lower the voltage on C50. There are two different sizes of kicks. When there has been a lot of drift in the past fraction of a second, the kick is big. If the drift has been small, the kick is small. Because the probe is draining charge off the capacitor C50, most of the pulses will go up.

Now a neat experiment. If you have an oscilloscope (PC folks can't do this one.) put it into DC coupling. Unlock the oscillator and see that the DC charge on C50 rides about 2.5v. In locked mode the up and down kicks are clearly visible.

If you turn the bandspread knob very slowly, lock can be maintained while you are causing the varactor to deliver more or less capacitance. And here's what is neat. In locked state you can watch the DC level slowly rise (or fall) as you slowly turn the bandspread knob. As the voltage approaches 5v (or 0v) it is difficult to put more (or less) charge on C50. Thus you can find a place where you have 1 or two bars and the Huff & Puff can no longer move the oscillator back onto frequency. The varactor has run out of range. A bit more of a turn on the knob and the oscillator will go out of lock.

So:

1. When unlocked, the pwm "levels" the voltage on the varactor at 2.5v

2. When locked, the pwm is turned off and little voltage kicks (positive or negative) raise or lower the voltage on the varactor to correct for oscillator drift.

Clever, huh?

regards
tom
k1trb
.

2879. Re: Watch Huff & Puff Live

Yahoo group: mkars80
Date: 2013-09-03 19:10:55 UTC
From: cd40105
Topic: 2878 Message: 2879

--- In mkars80@..., "k1trb" <trberger@...> wrote:
>
> Hi
>
> Here's something cool to watch: Huff & Puff in real time action as seen on the MKARS80.
>
> Equipment: A 10x probe and an oscilloscope
>
> OR
>
> a PC soundcard oscilloscope program (like Visual Analyzer http://www.sillanumsoft.org/) and a 10x probe. Good 100MHz probes can be found cheap on eBay.
>
> The waveform is about 10KHz so 50us per division would be about right. You can experiment. Later, when watching lock you'll want to slow down that sweep rate.
>
> Clip the ground lead of the probe to ground on the MKARS80 (naturally). Clip the tip to R40 very near the 10MHz Test Point (TP).
>
> Now turn on the MKARS80 and twist the tuning knob back and forth to keep it out of lock. While it's out of lock, adjust your scope so you get a nice wave form.
>
> The Show: While the oscillator is unlocked (U), you are watching the 10KHz square wave generated by the internal pulse width modulator of the PIC processor. The control capacitor C50 and the filter resistor R40 average this wave to a DC voltage applied to the varactor Huff & Puff tuning diode D5. The average will be about 2.5V.
>
> Now stop twisting the tuning knob and let the MKARS80 lock the frequency (+). You will see pulses going up and going down. The up ones are positive kicks to raise the voltage on C50 and the down ones lower the voltage on C50. There are two different sizes of kicks. When there has been a lot of drift in the past fraction of a second, the kick is big. If the drift has been small, the kick is small. Because the probe is draining charge off the capacitor C50, most of the pulses will go up.
>
> Now a neat experiment. If you have an oscilloscope (PC folks can't do this one.) put it into DC coupling. Unlock the oscillator and see that the DC charge on C50 rides about 2.5v. In locked mode the up and down kicks are clearly visible.
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> If you turn the bandspread knob very slowly, lock can be maintained while you are causing the varactor to deliver more or less capacitance. And here's what is neat. In locked state you can watch the DC level slowly rise (or fall) as you slowly turn the bandspread knob. As the voltage approaches 5v (or 0v) it is difficult to put more (or less) charge on C50. Thus you can find a place where you have 1 or two bars and the Huff & Puff can no longer move the oscillator back onto frequency. The varactor has run out of range. A bit more of a turn on the knob and the oscillator will go out of lock.

>
> So:
>
> 1. When unlocked, the pwm "levels" the voltage on the varactor at 2.5v
>
> 2. When locked, the pwm is turned off and little voltage kicks (positive or negative) raise or lower the voltage on the varactor to correct for oscillator drift.
>
> Clever, huh?
>
> regards
> tom
> k1trb
> .
>
Hi, Thanks for the info Tom, I'm quite facinated by the huff n puff technology. I've got too many irons in the fire at the present to finish off my mkars80 kit. I would quote in reply a statement used by Eddie Munster "Thats Neat" 73 de ian

2880. Re: Watch Huff & Puff Live

Yahoo group: mkars80
Date: 2013-09-04 00:13:56 UTC
From: k1trb
Topic: 2878 Message: 2880

Thanks ian

If you use a PC oscilloscope, you can still observe the "pulling" of the DC capacitor voltage on C50 by using a DC meter to measure the voltage at the other end of R40 where C50 has filtered it.

Do finish your MKARS80. It is a great little rig. Further it has seen the true test of design. The bidirectional IF is covered in EMRFD. The original BITX20 is a very nice rig. Then Steve took the design and improved those parts that were weakest: the best of incremental improvements.

Maybe you already know about Hans Summers website:
http://www.hanssummers.com/huffpuff.html
which covers Huff & Puff very well.

regards
tom
.

--- In mkars80@yahoogroups.co.uk, "cd40105" <cd40105@...> wrote:
>
>
>
> --- In mkars80@yahoogroups.co.uk, "k1trb" <trberger@> wrote:
> >
> > Hi
> >
> > Here's something cool to watch: Huff & Puff in real time action as seen on the MKARS80.
> >
> > Equipment: A 10x probe and an oscilloscope
> >
> > OR
> >
> > a PC soundcard oscilloscope program (like Visual Analyzer
http://www.sillanumsoft.org/) and a 10x probe. Good 100MHz probes can be found cheap on eBay.
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> Hi, Thanks for the info Tom, I'm quite facinated by the huff n puff technology. I've got too many irons in the fire at the present to finish off my mkars80 kit. I would quote in reply a statement used by Eddie Munster "Thats Neat" 73 de ian
>

2881. Re: Advice Please

Yahoo group: mkars80
Date: 2013-09-04 14:39:21 UTC
From: johncronhelm@nl.rogers.com
Topic: 2860 Message: 2881

Hello Simon,if receive doesn't work when you get Mkars80 back, check your BNC connector on the antenna. I had a bad one and when changed receive was good.
Just a thought in case. 73 de John vo1jcc.

--- In mkars80@yahoogroups.co.uk, "S" <afc007@...> wrote:
>
> Update
>
> I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any stations ie ssb / cw rtty which i would expect to hear
>
> I'm at wits end lol I have checked all the coils etc literally re flowed most joints and getting no where and the fear is totally messing it up completely. I have checked the voltages all on the rx side and all seem to tally with the help file.
>
> So im out of ideas
>
> btw im using the net and logging onto a sdr and the band is very lively i appreciate that one will be on a full size dedicated Antenna but i would still expect the mkars to receive something of what the sdr radio which is uk based as well.
>
>
>
> --- In mkars80@..., "S" <afc007@> wrote:
> >
> > Hi Steve
> >
> > yes i have desolder stuff both braid and sucker
> > I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
> > Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.
> >
> > Regards Simon G0MUC
> >
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
> > > With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
> > > Regards,

> > > Steve G6ALU
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "S" <afc007@>
> > > To: <mkars80@yahoogroups.co.uk>
> > > Subject: [mkars80] Advice Please
> > > Date: Sun, Aug 18, 2013 22:58
> > >
> > >
> > > i got my kit Saturday 17th August
> > > Thanks Steve
> > > Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
> > > the diodes were 11, 13, and 15 the 1n4148's and the transistor was Q16 BC547 Transistor. I had to remove them best i could and in the case of diode 13, and 15 mount on the underside as it was to awkward to get them back in component side, after doing this the mkars came to life it was working but just a slight hiss, now there is quite a bit of buzzing in the background amongst what i would class standard frequency noises but although hearing a few stations right in the mush I am not convinced it is working correctly. Unfortunately my freq counter decided it would no longer work so trying to get the 10mhz alignment fell to using a baofeng handheld using 100mhz fm and putting it close to the mkars adjusting C83 to leave a silent carrier on the hand held 10th harmonic not ideal but best i could do.
> > > Question would be obviously the aforementioned is not ideal and probably a bit off 10mhz would this cause the buzzing and lack of signals ie stations on ssb , cw etc.
> > > Im using a long random piece of wire as the antenna, but would expect more than i got, also im not over worried about setting tx up for the present due to wanting to mount the boards in a custom case where both sides will be easily got at etc for setting up.
> > > Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception
> > >
> > > Thanks for any Help
> > >
> > > Simon G0MUC
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2882. Unlock the Huff & Puff

Yahoo group: mkars80
Date: 2013-09-05 18:36:28 UTC
From: k1trb
Topic: 2882 Message: 2882

Members of the group have asked: How can I unlock the vfo?

Oscillator drift can be checked this way.

Put a small clip lead on the connection between R40 and C50. Connect the other end of the clip lead to ground. R40 is located near the 10MHz test point. The clip lead goes on the side of R40 closest to C50.

It is safe to ground this point (do not ground the other end of R40) since it operates at DC potential and has high impedance to other connections in the circuit.

This disables the Huff & Puff correction voltage and therefore unlocks the vfo.

When ungrounded, you may measure the Huff & Puff correction voltage at this point. When unlocked, it is set at 2.5V. When locked it can go down to near 0 volts or up to near 5 volts. Very slowly turning the bandspread knob so as to maintain lock you can watch this voltage change as the Huff & Puff corrects for your bandspread changes.

regards
tom
.
k1trb

2883. Re: Returned for Service

Yahoo group: mkars80
Date: 2013-09-08 09:09:53 UTC
From: hamlab3
Topic: 2875 Message: 2883

Simon,

Checked the radio several times and all OK so sent it back on Friday recorded, hope you get it Monday if you don't have it already.

Steve

--- In mkars80@..., simon afc007 <afc007@...> wrote:
>
> Hi Steve
>
>
> ok thanks it got in a bit of a mess after re winding coils etc
>
> Iwas sure I done them correctly as well
>
> thanks for looking at it and thanks for finishing the final tune up
>
> im worried it got untidy and have nothing to stick the toriods down
>
>
> Iwill have to work out an antenna for it it was strange even with a very long length of wire it seemed deaf I heard nothing bar heavy buzzing but I guess that could be as it was not cased / boxed I have got a box same spec as you sell size etc so will work it into that upon return.
>
>
> thanks again and I hope after further investigation nothing is too amiss and it can be returned, I will await your findings and let me know about getting funds to you for the return
>
>
> regards Simon
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> G0MUC
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> Sent from Windows Mail
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>
> From: Steve Drury
> Sent: â□□Mondayâ□□, â□□2â□□ â□□Septemberâ□□ â□□2013 â□□22â□□:â□□10
> To: mkars80@...
>

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>
> Good evening Simon,
> I've got your radio on the bench and found it receives well - I compared
> it with my MKARS80 to be sure, perhaps your antenna isn't adequate?
>
> The frequency jumped between about 3.8 to 3.8MHz, not sure of the reason
> so will investigate further - otherwise its all set up now with a TX
> power of about 5W.
>
> Will advise on the frequency issue in a day or two depending on work load.
>
> Regards,
> Steve G6ALU
>
> On 29/08/2013 15:25, simon afc007 wrote:
> > Hi Steve
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> >
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> > I have sent recorded delivery the mkars80 back for service before any further damage is done I did try rewinding one of the toroid's and got into a hell of a state things that looked fairly neat and clean have become a disaster zone.
> >
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> >
> > Anyhow thanks for offering to try and sort out the problem and let me know when ready to return etc then I will forward monies via paypal or however you prefer for return.
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> > --- In mkars80@....uk, "steve@..." <steve@> wrote:
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> >> I think it best you return it to me for service, I will only charge you return postage but turn round may be a week or two as I'm very busy at the moment.
> >> Steve G6ALU
> >> ----- Reply message -----
> >> From: "S" <afc007@>
> >> To: <mkars80@....uk>
> >> Subject: [mkars80] Re: Advice Please
> >> Date: Mon, Aug 19, 2013 19:38
> >> Update
> >> I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any

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> >>> Regards Simon G0MUC
> >>> --- In mkars80@yahoogroups.co.uk, "steve@" <steve@> wrote:
> >>>> I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
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> >>>> Steve G6ALU
> >>>> ----- Reply message -----
> >>>> From: "S" <afc007@>
> >>>> To: <mkars80@...>
> >>>> Subject: [mkars80] Advice Please
> >>>> Date: Sun, Aug 18, 2013 22:58
> >>>> i got my kit Saturday 17th August
> >>>> Thanks Steve
> >>>> Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
> >>>> the diodes were 11, 13, and 15 the 1n4148's and the transistor was Q16 BC547 Transistor. I had to remove them best i could and in the case of diode 13, and 15 mount on the underside as it was to awkward to get them back in component side, after doing this the mkars came to life it was working but just a slight hiss, now there is quite a bit of buzzing in the background amongst what i would class standard frequency noises but although hearing a few stations right in the mush I am not convinced it is working correctly. Unfortunately my freq counter decided it would no longer work so trying to get the 10mhz alignment fell to using a baofeng handheld using 100mhz fm and putting it close to the mkars adjusting C83 to leave a silent carrier on the hand held 10th harmonic not ideal but best i could do.
> >>>> Question would be obviously the aforementioned is not ideal and probably a bit off 10mhz would this cause the buzzing and lack of signals ie stations on ssb , cw etc.
> >>>> Im using a long random piece of wire as the antenna, but would expect more than i got, also im not over worried about setting tx up for the present due to wanting to mount the boards in a custom case where both sides will be easily got at etc for setting up.
> >>>> Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception
> >>>> Thanks for any Help
> >>>> Simon G0MUC
> >>>> ------------------------------------
> >>>> Yahoo! Groups Links

> >>>> [Non-text portions of this message have been removed]
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> >> Yahoo! Groups Links
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2013.0.3392 / Virus Database: 3222/6631 - Release Date: 09/02/13
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> [Non-text portions of this message have been removed]
>

2884. Calibration BFO / counter

Yahoo group: mkars80
Date: 2013-09-11 12:33:30 UTC
From: Colin
Topic: 2884 Message: 2884

I built an MKARS 80 a couple of years ago, at the time I had no means of properly setting the BFO frequency.

I made the radio work by setting the BFO by ear, adjusting the trimmer until the received signal sounded 'right'.

I want to start using this rig for SOTA during the winter and I'm just wondering whether I should have another look into the rig's alignment. I did a SOTA activation with the rig last winter and reports were very good indeed, saying my audio sounded good and that it sounded like an off the shelf rig.

I now have a frequency counter that I trust to within a couple of tens of Hertz, plus a 100MHz scope, I'm debating whether to go back and re-do the rigs alignment or leave well enough alone.

If I was to try to re-align, would I simply just probe the 10MHz TP for 10MHz? Would the carrier nulling need to be done again with new BFO setting?

73, Colin
M1BUU (ex M0CGH)

2885. Re: [mkars80] Calibration BFO / counter

Yahoo group: mkars80
Date: 2013-09-11 13:22:35 UTC
From: steve@radio-kits.co.uk
Topic: 2885 Message: 2885
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2886. Re: Returned for Service

Yahoo group: mkars80
Date: 2013-09-11 17:54:40 UTC
From: S
Topic: 2875 Message: 2886

Thanks Steve

Yes Received Today Many Thanks

The stamp is faded so im not sure what i owe ??
if you personal email me i will transfer funds to cover postage as agreed
Purchased all bits to make an aerial as im a bit limited to space going totry a Design by G7FEK if anyone googles that he designed A 46 ft multi band antenna for small gardens that works well on 80 meters

So hopefully have that up in a day or two weather permitting

Regards Simon

De G0MUC

--- In mkars80@..., "hamlab3" <steve@...> wrote:
>
> Simon,
>
> Checked the radio several times and all OK so sent it back on Friday recorded, hope you get it Monday if you don't have it already.
>
> Steve
>
> --- In mkars80@..., simon afc007 <afc007@> wrote:
> >
> > Hi Steve
> >
> >
> > ok thanks it got in a bit of a mess after re winding coils etc
> >
> > Iwas sure I done them correctly as well
> >
> > thanks for looking at it and thanks for finishing the final tune up
> >
> > im worried it got untidy and have nothing to stick the toriods down
> >
> >
> > Iwill have to work out an antenna for it it was strange even with a very long length of wire it seemed deaf I heard nothing bar heavy buzzing but I guess that could be as it was not cased / boxed I have got a box same spec as you sell size etc so will work it into that upon return.
> >
> >
> > thanks again and I hope after further investigation nothing is too amiss and it can be returned, I will await your findings and let me know about getting funds to you for the return

> >
> >
> > regards Simon
> >
> >
> > G0MUC
> >
> >
> >
> > Sent from Windows Mail
> >
> >
> >
> > From: Steve Drury
> > Sent: â□□Mondayâ□□, â□□2â□□ â□□Septemberâ□□ â□□2013 â□□22â□□:â□□10
> > To: mkars80@...
> >
> >
> >
> >
> >
> > Good evening Simon,
> > I've got your radio on the bench and found it receives well - I compared
> > it with my MKARS80 to be sure, perhaps your antenna isn't adequate?
> >
> > The frequency jumped between about 3.8 to 3.8MHz, not sure of the reason
> > so will investigate further - otherwise its all set up now with a TX
> > power of about 5W.
> >
> > Will advise on the frequency issue in a day or two depending on work load.
> >
> > Regards,
> > Steve G6ALU
> >
> > On 29/08/2013 15:25, simon afc007 wrote:
> > > Hi Steve
> > >
> > >
> > >
> > >
> > >
> > > I have sent recorded delivery the mkars80 back for service before any further damage is done I did try rewinding one of the toroid's and got into a hell of a state things that looked fairly neat and clean have become a disaster zone.
> > >
> > >
> > >
> > > Anyhow thanks for offering to try and sort out the problem and let me know when ready to return etc then I will forward monies via paypal or however you prefer for return.
> > >

> > >
> > >
> > >
> > >
> > > Regards Simon
> > >
> > >
> > >
> > >
> > >
> > > G0MUC
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > Sent from Windows Mail
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> > >
> > >
> > >
> > > From: S
> > >
> > > Sent: â□□Tuesdayâ□□, â□□20â□□ â□□Augustâ□□ â□□2013 â□□12â□□:â□□17
> > >
> > > To: mkars80@...
> > >
> > >
> > >
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> > >
> > >
> > >
> > >
> > >
> > >
> > > Email Sent Steve
> > >
> > >
> > >
> > > Simon
> > >
> > >

> > >
> > > G0MUC
> > >
> > >
> > >
> > > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > >> I think it best you return it to me for service, I will only charge you return postage but turn round may be a week or two as I'm very busy at the moment.
> > >> Steve G6ALU
> > >> ----- Reply message -----
> > >> From: "S" <afc007@>
> > >> To: <mkars80@...>
> > >> Subject: [mkars80] Re: Advice Please
> > >> Date: Mon, Aug 19, 2013 19:38
> > >> Update
> > >> I have replaced the transistor and the diodes although the noises buzz etc is lower im still not receiving any stations ie ssb / cw rtty which i would expect to hear
> > >> I'm at wits end lol I have checked all the coils etc literally re flowed most joints and getting no where and the fear is totally messing it up completely. I have checked the voltages all on the rx side and all seem to tally with the help file.
> > >> So im out of ideas
> > >> btw im using the net and logging onto a sdr and the band is very lively i appreciate that one will be on a full size dedicated Antenna but i would still expect the mkars to receive something of what the sdr radio which is uk based as well.
> > >> --- In mkars80@..., "S" <afc007@> wrote:
> > >>> Hi Steve
> > >>> yes i have desolder stuff both braid and sucker
> > >>> I have checked and rechecked the coils there are no shorts and all connections to the board where clean, I did use a very fine sand paper to remove the enamel as the soldering iron i use is only 15w.
> > >>> Until i found the faults i made ie diodes and transistor in the wrong way the board was deaf, but once corrected it did come to life but with the described symptoms, thats why i asked whether perhaps i had damaged the transistor hence the cause.
> > >>> Regards Simon G0MUC
> > >>> --- In mkars80@....uk, "steve@" <steve@> wrote:
> > >>>> I think it best I send you replacement components, do you have any desolder braid to clear the holes with?
> > >>>> With a long wire and gnd you should hear signals, especially in the evening so there may be some thing else wrong, the normal cause is poor joints on the transformer connections.
> > >>>> Regards,
> > >>>> Steve G6ALU
> > >>>> ----- Reply message -----
> > >>>> From: "S" <afc007@>
> > >>>> To: <mkars80@...>
> > >>>> Subject: [mkars80] Advice Please
> > >>>> Date: Sun, Aug 18, 2013 22:58
> > >>>> i got my kit Saturday 17th August
> > >>>> Thanks Steve
> > >>>> Finished Construction Today And had to Debug finding it was deaf but after checking all the coils I found i had put 3 diodes round the wrong way and one transistor, I honestly thought i was being carefull as well.
> > >>>> the diodes were 11, 13, and 15 the 1n4148's and the transistor was Q16 BC547 Transistor. I had to remove

them best i could and in the case of diode 13, and 15 mount on the underside as it was to awkward to get them back in component side, after doing this the mkars came to life it was working but just a slight hiss, now there is quite a bit of buzzing in the background amongst what i would class standard frequency noises but although hearing a few stations right in the mush I am not convinced it is working correctly. Unfortunately my freq counter decided it would no longer work so trying to get the 10mhz alignment fell to using a baofeng handheld using 100mhz fm and putting it close to the mkars adjusting C83 to leave a silent carrier on the hand held 10th harmonic not ideal but best i could do.
> > >>>> Question would be obviously the aforementioned is not ideal and probably a bit off 10mhz would this cause the buzzing and lack of signals ie stations on ssb , cw etc.
> > >>>> Im using a long random piece of wire as the antenna, but would expect more than i got, also im not over worried about setting tx up for the present due to wanting to mount the boards in a custom case where both sides will be easily got at etc for setting up.
> > >>>> Anyhow some advice the diodes are not particularly neat and do not sit nice and flush as mounted on the underside, I reused Q16 after turning it round the right way but im not sure if its damaged or any of the bodges i mean repairs are contributing to the current reception
> > >>>> Thanks for any Help
> > >>>> Simon G0MUC
> > >>>> ------------------------------------
> > >>>> Yahoo! Groups Links
> > >>>> [Non-text portions of this message have been removed]
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> > > Yahoo! Groups Links
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> > > -----
> > > No virus found in this message.
> > > Checked by AVG - www.avg.com
> > > Version: 2013.0.3392 / Virus Database: 3222/6631 - Release Date: 09/02/13
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> > [Non-text portions of this message have been removed]
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>

2887. Re: [mkars80] Calibration BFO / counter

Yahoo group: mkars80
Date: 2013-09-11 18:58:48 UTC
From: Ken Greenough
Topic: 2884 Message: 2887

Hello Colin,
There's a lot to be said for the old maxim,
If it's not broke, don't fix it.
73 Ken g8beq

2888. Huff and Puff problem after QSO after few minutes QSO.

Yahoo group: mkars80
Date: 2013-09-11 22:33:46 UTC
From: johncronhelm@nl.rogers.com
Topic: 2888 Message: 2888

My huff and puff stabilizes after 20 mins warm up on receive,slightly unstable after 1st transmission and after 3or 4 mins. on a QSO the frequency can slip badly and interrupt qso. How can I fix this? Otherwise the rig works excellently. Thanks, John vo1jcc.

2889. Sorry for Typo!

Yahoo group: mkars80
Date: 2013-09-11 22:40:49 UTC
From: johncronhelm@nl.rogers.com
Topic: 2889 Message: 2889

[Body unavailable in the source archive]

2890. Re: [mkars80] Calibration BFO / counter

Yahoo group: mkars80
Date: 2013-09-12 05:18:56 UTC
From: Daniel Ricardo Perez
Topic: 2884 Message: 2890

Colin, all that may happen if your BFO is not at the correct frequency is:
- some sacrifice at the low end of the speech band (instead of being high-passed from 300Hz up by the xtal filter, it could be being cut from e. g. 400Hz, the audio will lack vowels strength. Or:
- if being wrong in the other direction, you will be unnecessarily forgiving some bass frequency at the expense of losing a little treble.
In short: as Steve points out, if your equipment sounds good, leave it as is!
Daniel LW1ECP

El mié 11-sep-13, steve@... <steve@...> escribió:
Asunto: Re: [mkars80] Calibration BFO / counter
Para: mkars80@...
Fecha: miércoles, 11 de septiembre de 2013, 10:22
Hi, if received reports are OK then I wouldn't
worry too much. BFO should be OK.
Steve

From: "Colin" <m0cgh@...>
To: <mkars80@...>
Subject: [mkars80] Calibration BFO / counter
Date: Wed, Sep 11, 2013 13:33
I built an MKARS 80 a couple of years ago, at the time I had
no means of properly setting the BFO frequency.

I made the radio work by setting the BFO by ear, adjusting
the trimmer until the received signal sounded
'right'.

I want to start using this rig for SOTA during the winter
and I'm just wondering whether I should have another
look into the rig's alignment. I did a SOTA activation
with the rig last winter and reports were very good indeed,
saying my audio sounded good and that it sounded like an off
the shelf rig.

I now have a frequency counter that I trust to within a
couple of tens of Hertz, plus a 100MHz scope, I'm
debating whether to go back and re-do the rigs alignment or
leave well enough alone.

If I was to try to re-align, would I simply just probe the
10MHz TP for 10MHz? Would the carrier nulling need to be
done again with new BFO setting?

73, Colin
M1BUU (ex M0CGH)

2891. Re: Calibration BFO / counter

Yahoo group: mkars80
Date: 2013-09-12 08:05:39 UTC
From: Colin
Topic: 2884 Message: 2891

Thanks Steve, Ken and Daniel.

I find it's always tempting to go back to home constructed rigs to try and improve the calibrartion / alignment!

I've listened again to the recording I made of the MKARS and every single QSO gives a good report and some even mention that the audio sounds good. I think I will leave the rig alone.

What got me thinking about re-alignment was that I was listening to some CW on the rig since that is my main mode now and I couldn't get the displayed frequnecy to match up with the RBN spot for the CW station, I later worked out the reason for this of course! SSB is a whole different world away from CW, I'm only used to building CW rigs.

I would be quite tempted by the CW option for the MKARS80 should it become available again.

Looking forward to using my rig this winter!

Thanks, 73
Colin M1BUU

--- In mkars80@..., Daniel Ricardo Perez <danyperez1@...> wrote:
>
> Colin, all that may happen if your BFO is not at the correct frequency is:
> - some sacrifice at the low end of the speech band (instead of being high-passed from 300Hz up by the xtal filter, it could be being cut from e. g. 400Hz, the audio will lack vowels strength. Or:
> - if being wrong in the other direction, you will be unnecessarily forgiving some bass frequency at the expense of losing a little treble.
> In short: as Steve points out, if your equipment sounds good, leave it as is!
> Daniel LW1ECP
>
>
> El mié 11-sep-13, steve@... <steve@...> escribió:
> Asunto: Re: [mkars80] Calibration BFO / counter
> Para: mkars80@...
> Fecha: miércoles, 11 de septiembre de 2013, 10:22
> Hi, if received reports are OK then I wouldn't
> worry too much. BFO should be OK.
> Steve
>
>
> From: "Colin" <m0cgh@...>
> To: <mkars80@....uk>
> Subject: [mkars80] Calibration BFO / counter
> Date: Wed, Sep 11, 2013 13:33
> I built an MKARS 80 a couple of years ago, at the time I had

> no means of properly setting the BFO frequency.
>
> I made the radio work by setting the BFO by ear, adjusting
> the trimmer until the received signal sounded
> 'right'.
>
> I want to start using this rig for SOTA during the winter
> and I'm just wondering whether I should have another
> look into the rig's alignment. I did a SOTA activation
> with the rig last winter and reports were very good indeed,
> saying my audio sounded good and that it sounded like an off
> the shelf rig.
>
> I now have a frequency counter that I trust to within a
> couple of tens of Hertz, plus a 100MHz scope, I'm
> debating whether to go back and re-do the rigs alignment or
> leave well enough alone.
>
> If I was to try to re-align, would I simply just probe the
> 10MHz TP for 10MHz? Would the carrier nulling need to be
> done again with new BFO setting?
>
> 73, Colin
> M1BUU (ex M0CGH)
>

2892. Re: [mkars80] Re: Calibration BFO / counter

Yahoo group: mkars80
Date: 2013-09-12 08:53:11 UTC
From: steve@radio-kits.co.uk
Topic: 2892 Message: 2892
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2893. Re: Calibration BFO / counter

Yahoo group: mkars80
Date: 2013-09-12 09:01:39 UTC
From: Colin
Topic: 2884 Message: 2893

Thanks Steve, that's good to know.

Will you be attending Rishworth again at the end of October? Maybe I could pick up a CW adapter form you there?

Regards, Colin

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> Hi Colin, we pack the CW adapter in batches, there is another batch nearly ready so I would check the web site in about a week.
> Steve
>
>
>
> ----- Reply message -----
> From: "Colin" <m0cgh@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: Calibration BFO / counter
> Date: Thu, Sep 12, 2013 09:05
>
>
> Thanks Steve, Ken and Daniel.
>
> I find it's always tempting to go back to home constructed rigs to try and improve the calibrartion / alignment!
>
> I've listened again to the recording I made of the MKARS and every single QSO gives a good report and some even mention that the audio sounds good. I think I will leave the rig alone.
>
> What got me thinking about re-alignment was that I was listening to some CW on the rig since that is my main mode now and I couldn't get the displayed frequnecy to match up with the RBN spot for the CW station, I later worked out the reason for this of course! SSB is a whole different world away from CW, I'm only used to building CW rigs.
>
> I would be quite tempted by the CW option for the MKARS80 should it become available again.
>
> Looking forward to using my rig this winter!
>
> Thanks, 73
> Colin M1BUU
>
> --- In mkars80@..., Daniel Ricardo Perez <danyperez1@> wrote:
> >

> > Colin, all that may happen if your BFO is not at the correct frequency is:
> > - some sacrifice at the low end of the speech band (instead of being high-passed from 300Hz up by the xtal filter, it could be being cut from e. g. 400Hz, the audio will lack vowels strength. Or:
> > - if being wrong in the other direction, you will be unnecessarily forgiving some bass frequency at the expense of losing a little treble.
> > In short: as Steve points out, if your equipment sounds good, leave it as is!
> > Daniel LW1ECP
> >
> >
> > El miÃ© 11-sep-13, steve@ <steve@> escribiÃ³:
> > Asunto: Re: [mkars80] Calibration BFO / counter
> > Para: mkars80@...
> > Fecha: miÃ©rcoles, 11 de septiembre de 2013, 10:22
> > Hi, if received reports are OK then I wouldn't
> > worry too much. BFO should be OK.
> > Steve
> >
> >
> > From: "Colin" <m0cgh@>
> > To: <mkars80@...>
> > Subject: [mkars80] Calibration BFO / counter
> > Date: Wed, Sep 11, 2013 13:33
> > I built an MKARS 80 a couple of years ago, at the time I had
> > no means of properly setting the BFO frequency.
> >
> > I made the radio work by setting the BFO by ear, adjusting
> > the trimmer until the received signal sounded
> > 'right'.
> >
> > I want to start using this rig for SOTA during the winter
> > and I'm just wondering whether I should have another
> > look into the rig's alignment. I did a SOTA activation
> > with the rig last winter and reports were very good indeed,
> > saying my audio sounded good and that it sounded like an off
> > the shelf rig.
> >
> > I now have a frequency counter that I trust to within a
> > couple of tens of Hertz, plus a 100MHz scope, I'm
> > debating whether to go back and re-do the rigs alignment or
> > leave well enough alone.
> >
> > If I was to try to re-align, would I simply just probe the
> > 10MHz TP for 10MHz? Would the carrier nulling need to be
> > done again with new BFO setting?
> >
> > 73, Colin
> > M1BUU (ex M0CGH)
> >
>

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> Yahoo! Groups Links
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2894. Re: Returned for Service

Yahoo group: mkars80
Date: 2013-09-13 13:47:30 UTC
From: S
Topic: 2875 Message: 2894

As A follow to this i found the following..

The plasma tv in the front room does indeed account for most of the buzzing , also my Laptop once put on charge increases the problem.
So Slim you hit the nail on the head unfortunately.

on a brighter note the MKARS80 came back i have rehoused it in a new case fitted a light up lcd module, internal psu etc and when the rfi problems are turned to the off position the little radio is fine and im extremely pleased.

I Wired a mic earlier and i now I also have an antenna operational so im going to attempt the first QSO later tonight (rfi permitting lol)

Simon G0MUC

--- In mkars80@..., "S" <afc007@...> wrote:
>
>
>
> Hi Slim
>
> Ah you have a point there, through a brick wall no more than 6 feet away we have a large plasma tv which the wife has on nearly 24 hours a day,I will have to conduct a few experiments once the mkars80 is back.
> If i find anything conclusive then I'll post my findings .
>
>
> Simon G0MUC
>
> --- In mkars80@..., "Naqoyqatsi (aka the ICM)" <special@> wrote:
> >
> >
> > Hi Simon.
> >
> > As a follower of your problems you may simply (sadly!) be experiencing heavy back ground noise on 80M from a nearby PLA (network adaptor) and/or Plasma TVs.
> > These can make 80M unusable from their radiated noise levels.
> >
> > Slim G4IPZ
> >
>

2895. Re: [mkars80] Re: Returned for Service

Yahoo group: mkars80
Date: 2013-09-13 16:55:26 UTC
From: Ian Wade G3NRW
Topic: 2875 Message: 2895

___Original Message_____________________________________
From: S <afc007@...>
Date: Fri, 13 Sep 2013 Time: 13:47:30

>I Wired a mic earlier and i now I also have an antenna operational so
>im going to attempt the first QSO later tonight (rfi permitting lol)

Hi Simon

Post a time and frequency here, and I'll listen out for you.

--
73
Ian, G3NRW
Harlington

2896. Re: Huff and Puff problem after QSO after few minutes QSO.

Yahoo group: mkars80
Date: 2013-09-14 09:50:55 UTC
From: Pascal
Topic: 2888 Message: 2896

Hi, I repeat my previous answer that yahoo has not published :
I had the same issue, and solved it by replacing a few capacitors with NPO units...it is easy to make a mistake during building steps !
Good luck

73/Pascal

--- In mkars80@..., "johncronhelm@..." <johncronhelm@...> wrote:
>
> My huff and puff stabilizes after 20 mins warm up on receive,slightly unstable after 1st transmission and after 3or 4 mins. on a QSO the frequency can slip badly and interrupt qso. How can I fix this? Otherwise the rig works excellently. Thanks, John vo1jcc.
>

2897. Re: Huff and Puff problem after QSO after few minutes QSO.

Yahoo group: mkars80
Date: 2013-09-14 20:27:14 UTC
From: johncronhelm@nl.rogers.com
Topic: 2888 Message: 2897

Thanks Pascal,will probably replace C.59,60
That is probably where problem is.L5 coil looks
Ok.

--- In mkars80@..., " Pascal" <pascal@...> wrote:
>
>
> Hi, I repeat my previous answer that yahoo has not published :
> I had the same issue, and solved it by replacing a few capacitors with NPO units...it is easy to make a mistake during building steps !
> Good luck
>
> 73/Pascal
>
> --- In mkars80@..., "johncronhelm@" <johncronhelm@> wrote:
> >
> > My huff and puff stabilizes after 20 mins warm up on receive,slightly unstable after 1st transmission and after 3or 4 mins. on a QSO the frequency can slip badly and interrupt qso. How can I fix this? Otherwise the rig works excellently. Thanks, John vo1jcc.
> >
>

2898. Replacement variable capacitor

Yahoo group: mkars80
Date: 2013-09-17 19:06:51 UTC
From: S
Topic: 2898 Message: 2898

Can anybody let me no where I can get a Replacement variable capacitor, the polyvaricon. I had an accident and broke a leg off.
There seems to be a few on the dreaded fleebay but also some more solid looking ones.
The replacement is going in a custom case and so will not be board mounted, failing a direct replacement any idea of what value of pf i should be looking for ??

thanks in advance Simon

De G0MUC

2899. Re: [mkars80] Replacement variable capacitor

Yahoo group: mkars80
Date: 2013-09-17 19:17:12 UTC
From: Steve Drury
Topic: 2898 Message: 2899

Me!

Send me your address (again?) by private email and I will send you the
standard type. Capacitance is 3 - 142pF.

Steve G6ALU

On 17/09/2013 20:06, S wrote:
>
>
>
> Can anybody let me no where I can get a Replacement variable capacitor, the polyvaricon.
I had an accident and broke a leg off.
> There seems to be a few on the dreaded fleebay but also some more solid looking ones.
> The replacement is going in a custom case and so will not be board mounted, failing a
direct replacement any idea of what value of pf i should be looking for ??
>
> thanks in advance Simon
>
> De G0MUC
>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.3408 / Virus Database: 3222/6674 - Release Date: 09/17/13
>
>

2901. Re: Replacement variable capacitor

Yahoo group: mkars80
Date: 2013-09-18 20:47:20 UTC
From: S
Topic: 2898 Message: 2901

Hi Steve

I did reply by email but not sure if you got it ??

also i asked, and maybe someone could help here as well
I converted a Yoga mic (same as in files Maplin Mic) and although its an eletret mic im getting reports before the cap broke of bassy audio heavy mid range. would it be better to try a cheap pc mic and see if any different ?
I have read through some posts and seen that if the bfo is off ie not @10mhz this could be a factor although i think when it went back to you that would have been checked.
Incoming audio from now received stations is fine, so any hints or ideas would be appreciated

Regards Simon G0MUC

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Me!
>
> Send me your address (again?) by private email and I will send you the
> standard type. Capacitance is 3 - 142pF.
>
> Steve G6ALU
>
> On 17/09/2013 20:06, S wrote:
> >
> >
> >
> > Can anybody let me no where I can get a Replacement variable capacitor, the polyvaricon. I had an accident and broke a leg off.
> > There seems to be a few on the dreaded fleebay but also some more solid looking ones.
> > The replacement is going in a custom case and so will not be board mounted, failing a direct replacement any idea of what value of pf i should be looking for ??
> >
> > thanks in advance Simon
> >
> > De G0MUC
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> > ------------------------------------
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2013.0.3408 / Virus Database: 3222/6674 - Release Date: 09/17/13
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>

2902. Re: [mkars80] Re: Replacement variable capacitor

Yahoo group: mkars80
Date: 2013-09-18 21:23:03 UTC
From: Steve G6ALU
Topic: 2898 Message: 2902

Hi Simon, yes I did adjust the BFO correctly - try another microphone it may we that, if not I can send you 4 new crystals. I have had an occasion with a faulty crystal. Perhaps best I send you some with the polyvaricon just in case.
Steve

Sent from Samsung tablet

-------- Original message --------
From: S <afc007@live.co.uk>
Date: 18/09/2013 21:47 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Replacement variable capacitor

Hi Steve

I did reply by email but not sure if you got it ??

also i asked, and maybe someone could help here as well
I converted a Yoga mic (same as in files Maplin Mic) and although its an eletret mic im getting reports before the cap broke of bassy audio heavy mid range. would it be better to try a cheap pc mic and see if any different ?
I have read through some posts and seen that if the bfo is off ie not @10mhz this could be a factor although i think when it went back to you that would have been checked.
Incoming audio from now received stations is fine, so any hints or ideas would be appreciated

Regards Simon G0MUC

--- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:
>
> Me!
>
> Send me your address (again?) by private email and I will send you the
> standard type. Capacitance is 3 - 142pF.
>
> Steve G6ALU
>
> On 17/09/2013 20:06, S wrote:
> >
> >
> >
> > Can anybody let me no where I can get a Replacement variable capacitor, the polyvaricon. I had an accident and broke a leg off.
> > There seems to be a few on the dreaded fleebay but also some more solid looking ones.
> > The replacement is going in a custom case and so will not be board mounted, failing a direct replacement any idea of what value of pf i should be looking for ??
> >

> > thanks in advance Simon
> >
> > De G0MUC
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2013.0.3408 / Virus Database: 3222/6674 - Release Date: 09/17/13
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Yahoo! Groups Links

2903. deaf receiver

Yahoo group: mkars80
Date: 2013-09-22 10:50:52 UTC
From: christopher_iles@btinternet.com
Topic: 2903 Message: 2903

Hello all,

A while ago I bought a blown-up mkars80 off ebay. It had been reverse polarised and the fuse had been shorted out with a thick piece of wire.

Many hours (and transistors) later, I have the receiver working but it seems quite deaf. There is also a ticking noise at roughly 1 Hertz.

The radio is stable with no drift; I have rewound the mixer coils and replaced the diodes as a matter of course, the voltages compared with the voltage chart are ok and the aerial I'm using is an inverted v at 30 feet.

Any ideas please?

Thanks. Chris, G0VOE.

2904. Re: [mkars80] deaf receiver

Yahoo group: mkars80
Date: 2013-09-22 14:16:26 UTC
From: Steve G6ALU
Topic: 2903 Message: 2904

Hi Chris,

You've probably seen mention before that the biggest cause of deafness is poor connections on the mixer transformers, it takes a lot of heat to break down the enamel on the wire... apart from that do a voltage check. Does it transmit OK?

Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: christopher_iles@btinternet.com
Date: 22/09/2013 11:50 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] deaf receiver

Hello all,

A while ago I bought a blown-up mkars80 off ebay. It had been reverse polarised and the fuse had been shorted out with a thick piece of wire.

Many hours (and transistors) later, I have the receiver working but it seems quite deaf. There is also a ticking noise at roughly 1 Hertz.

The radio is stable with no drift; I have rewound the mixer coils and replaced the diodes as a matter of course, the voltages compared with the voltage chart are ok and the aerial I'm using is an inverted v at 30 feet.

Any ideas please?

Thanks. Chris, G0VOE.

Yahoo! Groups Links

2905. Re: [mkars80] deaf receiver

Yahoo group: mkars80
Date: 2013-09-22 17:55:09 UTC
From: Steve Drury
Topic: 2903 Message: 2905

Ticking noise... when you power up what software version does it show?

Steve

On 22/09/2013 15:16, Steve G6ALU wrote:
>
>
> Hi Chris,
>
> You've probably seen mention before that the biggest cause of deafness
> is poor connections on the mixer transformers, it takes a lot of heat
> to break down the enamel on the wire... apart from that do a voltage
> check. Does it transmit OK?
>
> Steve G6ALU
>
>
>
>
> Sent from Samsung tablet
>
>
>
> -------- Original message --------
> From: christopher_iles@...
> Date: 22/09/2013 11:50 (GMT+00:00)
> To: mkars80@...
> Subject: [mkars80] deaf receiver
>
>
> Hello all,
>
> A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> polarised and the fuse had been shorted out with a thick piece of wire.
>
> Many hours (and transistors) later, I have the receiver working but it
> seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
>
> The radio is stable with no drift; I have rewound the mixer coils and
> replaced the diodes as a matter of course, the voltages compared with
> the voltage chart are ok and the aerial I'm using is an inverted v at
> 30 feet.
>
> Any ideas please?
>

> Thanks. Chris, G0VOE.
>
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> Yahoo! Groups Links
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>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2013.0.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
>

2906. Re: deaf receiver

Yahoo group: mkars80
Date: 2013-09-23 06:31:49 UTC
From: christopher_iles@btinternet.com
Topic: 2903 Message: 2906

Hi Steve,

Many thanks for the reply.

On power up the display shows version 1.1 software.

I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.

I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.

Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.

I did a check on the low pass filter as well in case that was the culprit but that's ok too.

When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.

When I hear stations the audio quality is good but the signals are very weak compared with my main station receiver.

That's as far as I've got Steve.

Kind regards,

Chris. G0VOE.

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Ticking noise... when you power up what software version does it show?
>
> Steve
>
> On 22/09/2013 15:16, Steve G6ALU wrote:
> >
> >
> > Hi Chris,
> >
> > You've probably seen mention before that the biggest cause of deafness
> > is poor connections on the mixer transformers, it takes a lot of heat
> > to break down the enamel on the wire... apart from that do a voltage
> > check. Does it transmit OK?
> >
> > Steve G6ALU

> >
> >
> >
> >
> > Sent from Samsung tablet
> >
> >
> >
> > -------- Original message --------
> > From: christopher_iles@...
> > Date: 22/09/2013 11:50 (GMT+00:00)
> > To: mkars80@...
> > Subject: [mkars80] deaf receiver
> >
> >
> > Hello all,
> >
> > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > polarised and the fuse had been shorted out with a thick piece of wire.
> >
> > Many hours (and transistors) later, I have the receiver working but it
> > seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
> >
> > The radio is stable with no drift; I have rewound the mixer coils and
> > replaced the diodes as a matter of course, the voltages compared with
> > the voltage chart are ok and the aerial I'm using is an inverted v at
> > 30 feet.
> >
> > Any ideas please?
> >
> > Thanks. Chris, G0VOE.
> >
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> > Yahoo! Groups Links
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> > No virus found in this message.
> > Checked by AVG - www.avg.com <http://www.avg.com>
> > Version: 2013.0.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
> >
>

2907. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-09-23 07:50:59 UTC
From: steve@radio-kits.co.uk
Topic: 2907 Message: 2907
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2908. Re: deaf receiver

Yahoo group: mkars80
Date: 2013-09-23 09:03:56 UTC
From: christopher_iles@btinternet.com
Topic: 2903 Message: 2908

Hi Steve,

Thanks for the super fast reply!

I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.

The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.

These are identical to the ones in the photo on the home page. Also, there doesn't appear to be any drift and the huff and puff isn't going mad.

Thanks for taking your time to help, it is really appreciated.

Kind regards,

Chris.
--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> Steve
>
>
>
> ----- Reply message -----
> From: "christopher_iles@..." <christopher_iles@...>
> To: <mkars80@....uk>
> Subject: [mkars80] Re: deaf receiver
> Date: Mon, Sep 23, 2013 07:31
>
>
> Hi Steve,
>
> Many thanks for the reply.
>
> On power up the display shows version 1.1 software.
>
> I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
>
> I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
>

> Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.
>
> I did a check on the low pass filter as well in case that was the culprit but that's ok too.
>
> When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
>
> When I hear stations the audio quality is good but the signals are very weak compared with my main station receiver.
>
> That's as far as I've got Steve.
>
> Kind regards,
>
> Chris. G0VOE.
>
> --- In mkars80@..., Steve Drury <steve@> wrote:
> >
> > Ticking noise... when you power up what software version does it show?
> >
> > Steve
> >
> > On 22/09/2013 15:16, Steve G6ALU wrote:
> > >
> > >
> > > Hi Chris,
> > >
> > > You've probably seen mention before that the biggest cause of deafness
> > > is poor connections on the mixer transformers, it takes a lot of heat
> > > to break down the enamel on the wire... apart from that do a voltage
> > > check. Does it transmit OK?
> > >
> > > Steve G6ALU
> > >
> > >
> > >
> > >
> > >
> > > Sent from Samsung tablet
> > >
> > >
> > >
> > > -------- Original message --------
> > > From: christopher_iles@
> > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > To: mkars80@yahoogroups.co.uk
> > > Subject: [mkars80] deaf receiver
> > >

> > >
> > > Hello all,
> > >
> > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > polarised and the fuse had been shorted out with a thick piece of wire.
> > >
> > > Many hours (and transistors) later, I have the receiver working but it
> > > seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
> > >
> > > The radio is stable with no drift; I have rewound the mixer coils and
> > > replaced the diodes as a matter of course, the voltages compared with
> > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > 30 feet.
> > >
> > > Any ideas please?
> > >
> > > Thanks. Chris, G0VOE.
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> > > No virus found in this message.
> > > Checked by AVG - www.avg.com <http://www.avg.com>
> > > Version: 2013.0.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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2909. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-09-23 09:17:40 UTC
From: steve@radio-kits.co.uk
Topic: 2907 Message: 2909
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2910. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-09-23 09:36:06 UTC
From: CHRIS ILES
Topic: 2903 Message: 2910

Thanks Steve,

I probably have some polystyrene capacitors which I could try. When I get it working right, I'll be sure to let you know.

Kind regards,

Chris.

From: "steve@radio-kits.co.uk" <steve@...>
To: mkars80@...
Sent: Monday, 23 September 2013, 10:17
Subject: Re: [mkars80] Re: deaf receiver

Chris, it all tallies OK. All PCBs sold are V3, version numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
Steve

----- Reply message -----
From: "christopher_iles@..." <christopher_iles@...>
To: <mkars80@...>
Subject: [mkars80] Re: deaf receiver
Date: Mon, Sep 23, 2013 10:03

Hi Steve,

Thanks for the super fast reply!

I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.

The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.

These are identical to the ones in the photo on the home page. Also, there doesn't appear to be any dri
ft and the huff and puff isn't going mad.

Thanks for taking your time to help, it is really appreciated.

Kind regards,

Chris.
--- In mkars80@yahoogroups.co.uk, "steve@..." <steve@...> wrote:
>

> Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> Steve
>
>
>
> ----- Reply message -----
> From: "christopher_iles@..." <christopher_iles@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Mon, Sep 23, 2013 07:31
>
>
> Hi Steve,
>
> Many thanks for the reply.
>
> On power up the display shows version 1.1 software.
>
> I'
ve not tested the transmitter at all yet, I wanted to get the receiver working properly first.
>
> I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
>
> Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.
>
> I did a check on the low pass filter as well in case that was the culprit but that's ok too.
>
> When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
>
> When I hear stations the audio quality is good but the signals are very weak compared with my main station receiver.
>
> That's as far as I've got Steve.
>
> Kind regards,
>
> Chris. G0VOE.
>
> --- In mkars8
0@..., Steve Drury <steve@> wrote:
> >

> > Ticking noise... when you power up what software version does it show?
> >
> > Steve
> >
> > On 22/09/2013 15:16, Steve G6ALU wrote:
> > >
> > >
> > > Hi Chris,
> > >
> > > You've probably seen mention before that the biggest cause of deafness
> > > is poor connections on the mixer transformers, it takes a lot of heat
> > > to break down the enamel on the wire... apart from that do a voltage
> > > check. Does it transmit OK?
> > >
> > > Steve G6ALU
> > >
> > >
> > >
> > >
> > >
> > > Sent from Samsung tablet
> > >
> > >
> > >
> > > -------- Original message --------
> > > From: christopher_iles@
> > > Date: 22/09
/2013 11:50 (GMT+00:00)
> > > To: mkars80@...
> > > Subject: [mkars80] deaf receiver
> > >
> > >
> > > Hello all,
> > >
> > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > polarised and the fuse had been shorted out with a thick piece of wire.
> > >
> > > Many hours (and transistors) later, I have the receiver working but it
> > > seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
> > >
> > > The radio is stable with no drift; I have rewound the mixer coils and
> > > replaced the diodes as a matter of course, the voltages compared with
> > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > 30 feet.
> > >
> > > Any ideas please?
> > >
> > > Thanks. Chris
, G0VOE.
> > >
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> > > No virus found in this message.
> > > Checked by AVG - www.avg.com <http://www.avg.com>
> > > Version: 2013.0.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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Yahoo! Groups Links

(Yahoo! ID required)

2911. Huff & Puff problem

Yahoo group: mkars80
Date: 2013-09-23 14:36:13 UTC
From: johncronhelm@nl.rogers.com
Topic: 2911 Message: 2911

Hi Steve,prior to changing C59,60 have done some tests and found when I pressed PTT close to main rig on the same frequency its meter showed S3 Should I adjust R59, and could this have caused instability of Huff & Puff.

2912. Re: [mkars80] Huff & Puff problem

Yahoo group: mkars80
Date: 2013-09-23 17:01:57 UTC
From: Steve Drury
Topic: 2911 Message: 2912

Hello John,

No it shouldn't affect the Huff and Puff, follow the instructions in the construction manual if you plan on making adjustments.

Steve

On 23/09/2013 15:36, johncronhelm@... wrote:
> Hi Steve,prior to changing C59,60 have done some tests and found when I
> pressed PTT close to main rig on the same frequency its meter showed S3
> Should I adjust R59, and could this have caused instability of Huff & Puff.
>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2013.0.3408 / Virus Database: 3222/6688 - Release Date: 09/21/13
>
>

2913. Re: Huff & Puff problem

Yahoo group: mkars80
Date: 2013-09-23 19:59:28 UTC
From: johncronhelm@nl.rogers.com
Topic: 2911 Message: 2913

Thanks Steve, how important is it to have S= 0 on nearby receiver when PTT pressed on MKARS80,as regards its general operation ? Regards, John.

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Hello John,
>
> No it shouldn't affect the Huff and Puff, follow the instructions in the
> construction manual if you plan on making adjustments.
>
> Steve
>
>
> On 23/09/2013 15:36, johncronhelm@... wrote:
> > Hi Steve,prior to changing C59,60 have done some tests and found when I
> > pressed PTT close to main rig on the same frequency its meter showed S3
> > Should I adjust R59, and could this have caused instability of Huff & Puff.
> >
> >
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2013.0.3408 / Virus Database: 3222/6688 - Release Date: 09/21/13
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> >
>

2914. Re: [mkars80] Re: Huff & Puff problem

Yahoo group: mkars80
Date: 2013-09-23 20:36:57 UTC
From: Steve G6ALU
Topic: 2911 Message: 2914

John,
You probably wont be able to get it to S0, dont worry about it too much. If you get a carrier leak the listener would get a tone if they tune away from you.
Steve

Sent from Samsung tablet

-------- Original message --------
From: johncronhelm@nl.rogers.com
Date: 23/09/2013 20:59 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Huff & Puff problem

Thanks Steve, how important is it to have S= 0 on nearby receiver when PTT pressed on MKARS80,as regards its general operation ? Regards, John.

--- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:
>
> Hello John,
>
> No it shouldn't affect the Huff and Puff, follow the instructions in the
> construction manual if you plan on making adjustments.
>
> Steve
>
>
> On 23/09/2013 15:36, johncronhelm@... wrote:
> > Hi Steve,prior to changing C59,60 have done some tests and found when I
> > pressed PTT close to main rig on the same frequency its meter showed S3
> > Should I adjust R59, and could this have caused instability of Huff & Puff.
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2013.0.3408 / Virus Database: 3222/6688 - Release Date: 09/21/13

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Yahoo! Groups Links

2916. Re: [mkars80] track side pcb

Yahoo group: mkars80
Date: 2013-09-28 14:47:36 UTC
From: Steve G6ALU
Topic: 2916 Message: 2916

Chris,
There is a pdf in the group files section called MKARS80.PDF.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: christopher_iles@btinternet.com
Date: 28/09/2013 11:56 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] track side pcb

Hello,

Could anyone please send me a picture of the track side of the mixer?

I've changed the diodes and had the transformers out that many times that I'm going to have to hard wire it this time as some of the tracks are now missing.

I could figure it out from the circuit diagram but it would be a lot easier if I had a picture of this area.

Thanks in anticipation,

Chris. G0VOE.

Yahoo! Groups Links

2917. Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-06 18:12:03 UTC
From: S
Topic: 2917 Message: 2917

I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.

however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).

The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.

any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.

Thanks in advance Simon

De G0MUC

2918. Re: [mkars80] Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-06 19:13:15 UTC
From: Steve Drury
Topic: 2917 Message: 2918

Mic could have excessive output level, can you turn the level down?

Steve

On 06/10/2013 19:12, S wrote:
> I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
>
> however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
>
> The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
>
> any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
>
> Thanks in advance Simon
>
> De G0MUC
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> Yahoo! Groups Links
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> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2014.0.4142 / Virus Database: 3604/6721 - Release Date: 10/03/13
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>

2919. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-06 19:15:39 UTC
From: S
Topic: 2917 Message: 2919

yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.

Simon

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Mic could have excessive output level, can you turn the level down?
>
> Steve
>
> On 06/10/2013 19:12, S wrote:
> > I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
> >
> > however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
> >
> > The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
> >
> > any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
> >
> > Thanks in advance Simon
> >
> > De G0MUC
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.

> > Checked by AVG - www.avg.com
> > Version: 2014.0.4142 / Virus Database: 3604/6721 - Release Date: 10/03/13
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2920. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-06 20:34:56 UTC
From: Steve G6ALU
Topic: 2917 Message: 2920

Strange... the only thing I can think is it generates a sharp DC transient when you press the PTT, I guess it powers up the amp each time. Cant really think of a way around this other than reducing the coupling capacitor or putting a lower value in series. This though will reduce the low frequency response...for a start try a 100nF and work up.
Steve

Sent from Samsung tablet

-------- Original message --------
From: S <afc007@live.co.uk>
Date: 06/10/2013 20:15 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic

yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.

Simon

--- In mkars80@yahoogroups.co.uk, Steve Drury <steve@...> wrote:
>
> Mic could have excessive output level, can you turn the level down?
>
> Steve
>
> On 06/10/2013 19:12, S wrote:
> > I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
> >
> > however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
> >
> > The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
> >
> > any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
> >
> > Thanks in advance Simon
> >
> > De G0MUC

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> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2014.0.4142 / Virus Database: 3604/6721 - Release Date: 10/03/13
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Yahoo! Groups Links

2921. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-06 20:42:49 UTC
From: S
Topic: 2917 Message: 2921

Hi Steve

Sorry im going to sound really stupid now lol
where am i trying a 100nf ??
ie i built the mkars80 into a large enclosure and from the main pcb using the jack socket a cable to a 4 pin mic socket on the fascia so it seemed like a regular set.

So im not sure where to put a capacitor sorry

Simon

--- In mkars80@..., Steve G6ALU <steve@...> wrote:
>
> Strange... the only thing I can think is it generates a sharp DC transient when you press the PTT, I guess it powers up the amp each time. Cant really think of a way around this other than reducing the coupling capacitor or putting a lower value in series. This though will reduce the low frequency response...for a start try a 100nF and work up.
> Steve
>
>
>
>
> Sent from Samsung tablet
>
> -------- Original message --------
> From: S <afc007@...>
> Date: 06/10/2013 20:15 (GMT+00:00)
> To: mkars80@yahoogroups.co.uk
> Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
>
> yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.
>
> Simon
>
> --- In mkars80@..., Steve Drury <steve@> wrote:
> >
> > Mic could have excessive output level, can you turn the level down?
> >
> > Steve
> >
> > On 06/10/2013 19:12, S wrote:
> > > I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
> > >

> > > however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
> > >
> > > The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
> > >
> > > any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
> > >
> > > Thanks in advance Simon
> > >
> > > De G0MUC
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> > > Checked by AVG - www.avg.com
> > > Version: 2014.0.4142 / Virus Database: 3604/6721 - Release Date: 10/03/13
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2922. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-06 20:51:32 UTC
From: Steve G6ALU
Topic: 2917 Message: 2922

Place it in series with the microphone "live" lead, 100nF is only a starting point just to see if it cures it - you will need a larger value for decent audio.
Steve

Sent from Samsung tablet

-------- Original message --------
From: S <afc007@live.co.uk>
Date: 06/10/2013 21:42 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic

Hi Steve

Sorry im going to sound really stupid now lol
where am i trying a 100nf ??
ie i built the mkars80 into a large enclosure and from the main pcb using the jack socket a cable to a 4 pin mic socket on the fascia so it seemed like a regular set.

So im not sure where to put a capacitor sorry

Simon

--- In mkars80@yahoogroups.co.uk, Steve G6ALU <steve@...> wrote:
>
> Strange... the only thing I can think is it generates a sharp DC transient when you press the PTT, I guess it powers up the amp each time. Cant really think of a way around this other than reducing the coupling capacitor or putting a lower value in series. This though will reduce the low frequency response...for a start try a 100nF and work up.
> Steve
>
>
>
>
> Sent from Samsung tablet
>
> -------- Original message --------
> From: S <afc007@...>
> Date: 06/10/2013 20:15 (GMT+00:00)
> To: mkars80@yahoogroups.co.uk
> Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
>
> yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.
>
> Simon
>

> --- In mkars80@yahoogroups.co.uk, Steve Drury <steve@> wrote:
> >
> > Mic could have excessive output level, can you turn the level down?
> >
> > Steve
> >
> > On 06/10/2013 19:12, S wrote:
> > > I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
> > >
> > > however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
> > >
> > > The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
> > >
> > > any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
> > >
> > > Thanks in advance Simon
> > >
> > > De G0MUC
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> > > Checked by AVG - www.avg.com
> > > Version: 2014.0.4142 / Virus Database: 3604/6721 - Release Date: 10/03/13
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Yahoo! Groups Links

2923. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-11 09:57:46 UTC
From: S
Topic: 2917 Message: 2923

Hi Steve

I have since found the Desk Mic has a fault so scraped that idea but i am on the look out for a suitable compatible microphone.
Rather than use a pc mic which i understand work fine maybe i will try an ex pmr one, several are available @ a few pounds that are electret so i would imagine its a case of try and see and hopefully get good results.

regards Simon

G0MUC

--- In mkars80@..., Steve G6ALU <steve@...> wrote:
>
> Place it in series with the microphone "live" lead, 100nF is only a starting point just to see if it cures it - you will need a larger value for decent audio.
> Steve
>
>
>
>
> Sent from Samsung tablet
>
> -------- Original message --------
> From: S <afc007@...>
> Date: 06/10/2013 21:42 (GMT+00:00)
> To: mkars80@...
> Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
>
> Hi Steve
>
> Sorry im going to sound really stupid now lol
> where am i trying a 100nf ??
> ie i built the mkars80 into a large enclosure and from the main pcb using the jack socket a cable to a 4 pin mic socket on the fascia so it seemed like a regular set.
>
> So im not sure where to put a capacitor sorry
>
> Simon
>
> --- In mkars80@..., Steve G6ALU <steve@> wrote:
> >
> > Strange... the only thing I can think is it generates a sharp DC transient when you press the PTT, I guess it powers up the amp each time. Cant really think of a way around this other than reducing the coupling capacitor or putting a lower value in series. This though will reduce the low frequency response...for a start try a 100nF and work up.

> > Steve
> >
> >
> >
> >
> > Sent from Samsung tablet
> >
> > -------- Original message --------
> > From: S <afc007@>
> > Date: 06/10/2013Â 20:15Â (GMT+00:00)
> > To: mkars80@...
> > Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
> >Â
> > yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.
> >
> > Simon
> >
> > --- In mkars80@yahoogroups.co.uk, Steve Drury <steve@> wrote:
> > >
> > > Mic could have excessive output level, can you turn the level down?
> > >
> > > Steve
> > >
> > > On 06/10/2013 19:12, S wrote:
> > > > I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
> > > >
> > > > however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
> > > >
> > > > The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
> > > >
> > > > any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
> > > >
> > > > Thanks in advance Simon
> > > >
> > > > De G0MUC
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> > > > Version: 2014.0.4142 / Virus Database: 3604/6721 - Release Date: 10/03/13
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2924. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-11 13:03:56 UTC
From: Daniel Ricardo Perez
Topic: 2917 Message: 2924

Simon:
Sorry to know that microphone is faulty, I was thinking a possible explanation to the frequency drift, but it will be technically enlightening for the Group if you can make one more try.
Let's see:
- a Huff & Puff is able to correct slow drifts, not sudden ones, these will make it lock into a new, say, "harmonic" of the reference.
- you notice the drift even with no modulation, so we can discard a brownout in the power supply.
- something is pulling the VFO, and it's not the voltage supply. It CAN be RF leaking into this stage.
- when there exist RF currents flowing in the outer surface of a coax, everything attached to the shack end of the line is "hot" with RF, you touch the rig and your body becomes part of the antenna system. Even SWR meters are fooled by unbalanced line currents.
Putting all this together, could it be that:
- the problematic microphone has a longer cable? (more radiation into the shack)
- your MKARS is not within a closed metal box? This could be worse if the variable cap is not screwed to the PCB but panel mounted and with cable connections to the PCB.
Try to add a common-mode balun right at the antenna connection of the rig, e.g. several coax turns around a ferrite toroid. This will force the currents in the center conductor and shield to equalize and your rig will be more "cool". And/or route the mic cable in a different direction, or shorten it.
If you can try this, please let us know the results.
Cheers
Daniel Perez LW1ECP

El vie 11-oct-13, S <afc007@... escribió:
Fecha: viernes, 11 de octubre de 2013, 6:57
Hi Steve
I have since found the Desk Mic has a fault so scraped that idea but i am on the look out for a suitable compatible microphone.
Rather than use a pc mic which i understand work fine maybe i will try an ex pmr one, several are available @ a few pounds that are electret so i would imagine its a case of try and see and hopefully get good results.
regards Simon G0MUC

--- In mkars80@..., Steve G6ALU <steve@... wrote:
Place it in series with the microphone "live" lead, 100nF is only a starting point just to see if it cures it - you will need a larger value for decent audio. Steve

From: S <afc007@...
Date: 06/10/2013 21:42 (GMT+00:00)
Hi Steve, Sorry im going to sound really stupid now lol
where am i trying a 100nf ??
ie i built the mkars80 into a large enclosure and from the main pcb using the jack socket a cable to a 4 pin mic socket on the fascia so it seemed like a regular set.

So im not sure where to put a capacitor sorry
Simon

--- In mkars80@..., Steve G6ALU <steve@ wrote:
Strange... the only thing I can think is it generates a sharp DC transient when you press the PTT, I guess it powers up the amp each time. Cant really think of a way around this other than reducing the coupling capacitor or putting a lower value in series. This though will reduce the low frequency response...for a start try a 100nF and work up.
Steve

From: S <afc007@
Date: 06/10/2013Â 20:15Â (GMT+00:00)
yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.
Simon

--- In mkars80@..., Steve Drury <steve@ wrote:
Mic could have excessive output level, can you turn the level down? Steve

On 06/10/2013 19:12, S wrote:
I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
Thanks in advance Simon
De G0MUC

2925. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-11 15:54:55 UTC
From: S
Topic: 2917 Message: 2925

Hi Daniel

Interesting reading, but to answer some of your points
correct the mkars is not mounted in its metal enclosure but i have done a varactor mod which everything is earthed to the main board etc.
The drifting happens even using a dummy load as well as the main antenna, I have discovered / believe the desk mic has a fault on the basis as it is keyed the mkars unlocks the huff and puff and startsto do its drift, if i pick the mic up and physically move it around loads of crackling can be heard as if a bad earth or loose connection inside it. Maybe i will strip it down and investigate later.
Also after a few seconds the Huff and Puff does manage to lock and stay locked until the ptt is depressed / unlocked and then once again the mkars drifts and again a few seconds later re locks, if that makes any sense.

--- In mkars80@..., Daniel Ricardo Perez <danyperez1@...> wrote:
>
> Simon:
> Sorry to know that microphone is faulty, I was thinking a possible explanation to the frequency drift, but it will be technically enlightening for the Group if you can make one more try.
> Let's see:
> - a Huff & Puff is able to correct slow drifts, not sudden ones, these will make it lock into a new, say, "harmonic" of the reference.
> - you notice the drift even with no modulation, so we can discard a brownout in the power supply.
> - something is pulling the VFO, and it's not the voltage supply. It CAN be RF leaking into this stage.
> - when there exist RF currents flowing in the outer surface of a coax, everything attached to the shack end of the line is "hot" with RF, you touch the rig and your body becomes part of the antenna system. Even SWR meters are fooled by unbalanced line currents.
> Putting all this together, could it be that:
> - the problematic microphone has a longer cable? (more radiation into the shack)
> - your MKARS is not within a closed metal box? This could be worse if the variable cap is not screwed to the PCB but panel mounted and with cable connections to the PCB.
> Try to add a common-mode balun right at the antenna connection of the rig, e.g. several coax turns around a ferrite toroid. This will force the currents in the center conductor and shield to equalize and your rig will be more "cool". And/or route the mic cable in a different direction, or shorten it.
> If you can try this, please let us know the results.
> Cheers
> Daniel Perez LW1ECP
>
>
> El vie 11-oct-13, S <afc007@... escribió:
> Fecha: viernes, 11 de octubre de 2013, 6:57

> Hi Steve
> I have since found the Desk Mic has a fault so scraped that idea but i am on the look out for a suitable compatible microphone.
> Rather than use a pc mic which i understand work fine maybe i will try an ex pmr one, several are available @ a few pounds that are electret so i would imagine its a case of try and see and hopefully get good results.
> regards Simon G0MUC
>
>
> --- In mkars80@yahoogroups.co.uk, Steve G6ALU <steve@ wrote:
> Place it in series with the microphone "live" lead, 100nF is only a starting point just to see if it cures it - you will need a larger value for decent audio. Steve
>
>
> From: S <afc007@
> Date: 06/10/2013 21:42 (GMT+00:00)
> Hi Steve, Sorry im going to sound really stupid now lol
> where am i trying a 100nf ??
> ie i built the mkars80 into a large enclosure and from the main pcb using the jack socket a cable to a 4 pin mic socket on the fascia so it seemed like a regular set.
> So im not sure where to put a capacitor sorry
> Simon
>
>
> --- In mkars80@..., Steve G6ALU <steve@ wrote:
> Strange... the only thing I can think is it generates a sharp DC transient when you press the PTT, I guess it powers up the amp each time. Cant really think of a way around this other than reducing the coupling capacitor or putting a lower value in series. This though will reduce the low frequency response...for a start try a 100nF and work up.
> Steve
>
>
>
> From: S <afc007@
> Date: 06/10/2013Â 20:15Â (GMT+00:00)
> yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.
> Simon
>
>
> --- In mkars80@..., Steve Drury <steve@ wrote:
> Mic could have excessive output level, can you turn the level down? Steve
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>
> On 06/10/2013 19:12, S wrote:
> I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
> however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility

but i do not think appropriate for 80m lol).
> The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
> any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
> Thanks in advance Simon
> De G0MUC
>

2926. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-13 20:12:46 UTC
From: S
Topic: 2917 Message: 2926

ok changed to a fist mic still electret based
do not get the drift while going to tx making an over but as soon as i release the ptt the huff and puff unlocks
Now i have taken heed of Daniels post, but this happens on dummy load as well as on the antenna. Also i have re routed the extension mic wires that come from the jack socket to a standard 4 pin socket mounted on my fascia but no difference. So again im stuck i can not keep getting mic's and falling on the same problem.

@ steve should i start trying the capacitor mod you suggested earlier in this thread ??

regards Simon G0MUC

--- In mkars80@..., "S" <afc007@...> wrote:
>
> Hi Daniel
>
> Interesting reading, but to answer some of your points
> correct the mkars is not mounted in its metal enclosure but i have done a varactor mod which everything is earthed to the main board etc.
> The drifting happens even using a dummy load as well as the main antenna, I have discovered / believe the desk mic has a fault on the basis as it is keyed the mkars unlocks the huff and puff and startsto do its drift, if i pick the mic up and physically move it around loads of crackling can be heard as if a bad earth or loose connection inside it. Maybe i will strip it down and investigate later.
> Also after a few seconds the Huff and Puff does manage to lock and stay locked until the ptt is depressed / unlocked and then once again the mkars drifts and again a few seconds later re locks, if that makes any sense.
>
>
>
> --- In mkars80@..., Daniel Ricardo Perez <danyperez1@> wrote:
> >
> > Simon:
> > Sorry to know that microphone is faulty, I was thinking a possible explanation to the frequency drift, but it will be technically enlightening for the Group if you can make one more try.
> > Let's see:
> > - a Huff & Puff is able to correct slow drifts, not sudden ones, these will make it lock into a new, say, "harmonic" of the reference.
> > - you notice the drift even with no modulation, so we can discard a brownout in the power supply.
> > - something is pulling the VFO, and it's not the voltage supply. It CAN be RF leaking into this stage.
> > - when there exist RF currents flowing in the outer surface of a coax, everything attached to the shack end of the line is "hot" with RF, you touch the rig and your body becomes part of the antenna system. Even SWR meters are fooled by unbalanced line currents.

> > Putting all this together, could it be that:
> > - the problematic microphone has a longer cable? (more radiation into the shack)
> > - your MKARS is not within a closed metal box? This could be worse if the variable cap is not screwed to the PCB but panel mounted and with cable connections to the PCB.
> > Try to add a common-mode balun right at the antenna connection of the rig, e.g. several coax turns around a ferrite toroid. This will force the currents in the center conductor and shield to equalize and your rig will be more "cool". And/or route the mic cable in a different direction, or shorten it.
> > If you can try this, please let us know the results.
> > Cheers
> > Daniel Perez LW1ECP
> >
> >
> > El vie 11-oct-13, S <afc007@ escribió:
> > Fecha: viernes, 11 de octubre de 2013, 6:57
> > Hi Steve
> > I have since found the Desk Mic has a fault so scraped that idea but i am on the look out for a suitable compatible microphone.
> > Rather than use a pc mic which i understand work fine maybe i will try an ex pmr one, several are available @ a few pounds that are electret so i would imagine its a case of try and see and hopefully get good results.
> > regards Simon G0MUC
> >
> >
> > --- In mkars80@..., Steve G6ALU <steve@ wrote:
> > Place it in series with the microphone "live" lead, 100nF is only a starting point just to see if it cures it - you will need a larger value for decent audio. Steve
> >
> >
> > From: S <afc007@
> > Date: 06/10/2013 21:42 (GMT+00:00)
> > Hi Steve, Sorry im going to sound really stupid now lol
> > where am i trying a 100nf ??
> > ie i built the mkars80 into a large enclosure and from the main pcb using the jack socket a cable to a 4 pin mic socket on the fascia so it seemed like a regular set.
> > So im not sure where to put a capacitor sorry
> > Simon
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> > --- In mkars80@..., Steve G6ALU <steve@ wrote:
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> > Steve
> >
> >
> >
> > From: S <afc007@
> > Date: 06/10/2013Â 20:15Â (GMT+00:00)

> > yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.
> > Simon
> >
> >
> > --- In mkars80@yahoogroups.co.uk, Steve Drury <steve@ wrote:
> > Mic could have excessive output level, can you turn the level down? Steve
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> > On 06/10/2013 19:12, S wrote:
> > I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
> > however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
> > The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
> > any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
> > Thanks in advance Simon
> > De G0MUC
> >
>

2927. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-13 21:15:25 UTC
From: Steve Drury
Topic: 2917 Message: 2927

Shouldn't need any modifying if you are using a standard electret microphone... remind me of the other mods you have made to the radio, perhaps there is a clue there.

Steve

On 10/13/2013 9:12 PM, S wrote:
> ok changed to a fist mic still electret based
> do not get the drift while going to tx making an over but as soon as i release the ptt the huff and puff unlocks
> Now i have taken heed of Daniels post, but this happens on dummy load as well as on the antenna. Also i have re routed the extension mic wires that come from the jack socket to a standard 4 pin socket mounted on my fascia but no difference. So again im stuck i can not keep getting mic's and falling on the same problem.
>
> @ steve should i start trying the capacitor mod you suggested earlier in this thread ??
>
> regards Simon G0MUC
>
> --- In mkars80@..., "S" <afc007@...> wrote:
>> Hi Daniel
>>
>> Interesting reading, but to answer some of your points
>> correct the mkars is not mounted in its metal enclosure but i have done a varactor mod which everything is earthed to the main board etc.
>> The drifting happens even using a dummy load as well as the main antenna, I have discovered / believe the desk mic has a fault on the basis as it is keyed the mkars unlocks the huff and puff and startsto do its drift, if i pick the mic up and physically move it around loads of crackling can be heard as if a bad earth or loose connection inside it. Maybe i will strip it down and investigate later.
>> Also after a few seconds the Huff and Puff does manage to lock and stay locked until the ptt is depressed / unlocked and then once again the mkars drifts and again a few seconds later re locks, if that makes any sense.
>>
>>
>>
>> --- In mkars80@..., Daniel Ricardo Perez <danyperez1@> wrote:
>>> Simon:
>>> Sorry to know that microphone is faulty, I was thinking a possible explanation to the frequency drift, but it will be technically enlightening for the Group if you can make one more try.
>>> Let's see:
>>> - a Huff & Puff is able to correct slow drifts, not sudden ones, these will make it lock into a new, say, "harmonic" of the reference.
>>> - you notice the drift even with no modulation, so we can discard a brownout in the

power supply.
>>> - something is pulling the VFO, and it's not the voltage supply. It CAN be RF leaking into this stage.
>>> - when there exist RF currents flowing in the outer surface of a coax, everything attached to the shack end of the line is "hot" with RF, you touch the rig and your body becomes part of the antenna system. Even SWR meters are fooled by unbalanced line currents.
>>> Putting all this together, could it be that:
>>> - the problematic microphone has a longer cable? (more radiation into the shack)
>>> - your MKARS is not within a closed metal box? This could be worse if the variable cap is not screwed to the PCB but panel mounted and with cable connections to the PCB.
>>> Try to add a common-mode balun right at the antenna connection of the rig, e.g. several coax turns around a ferrite toroid. This will force the currents in the center conductor and shield to equalize and your rig will be more "cool". And/or route the mic cable in a different direction, or shorten it.
>>> If you can try this, please let us know the results.
>>> Cheers
>>> Daniel Perez LW1ECP
>>>
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>>> El vie 11-oct-13, S <afc007@ escribi?:
>>> Fecha: viernes, 11 de octubre de 2013, 6:57
>>> Hi Steve
>>> I have since found the Desk Mic has a fault so scraped that idea but i am on the look out for a suitable compatible microphone.
>>> Rather than use a pc mic which i understand work fine maybe i will try an ex pmr one, several are available @ a few pounds that are electret so i would imagine its a case of try and see and hopefully get good results.
>>> regards Simon G0MUC
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>>>
>>> --- In mkars80@..., Steve G6ALU <steve@ wrote:
>>> Place it in series with the microphone "live" lead, 100nF is only a starting point just to see if it cures it - you will need a larger value for decent audio. Steve
>>>
>>>
>>> From: S <afc007@
>>> Date: 06/10/2013 21:42 (GMT+00:00)
>>> Hi Steve, Sorry im going to sound really stupid now lol
>>> where am i trying a 100nf ??
>>> ie i built the mkars80 into a large enclosure and from the main pcb using the jack socket a cable to a 4 pin mic socket on the fascia so it seemed like a regular set.
>>> So im not sure where to put a capacitor sorry
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>>> Steve

>>>
>>>
>>>
>>> From: S <afc007@
>>> Date: 06/10/2013? 20:15? (GMT+00:00)
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>>> any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
>>> Thanks in advance Simon
>>> De G0MUC
>>>
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> Yahoo! Groups Links
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> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2014.0.4158 / Virus Database: 3614/6746 - Release Date: 10/13/13
>
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>

2928. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-13 21:24:51 UTC
From: Ken Greenough
Topic: 2917 Message: 2928

Hello Simon,
Did you have this problem before you did the
varicap mod ' ? If not it's the first place to look hi.
Have you tried a large value electrolytic across the
power supply at the set ? Sounds as if you have a
voltage transient when you change the load on the
supply and it's reaching the varicap.
73 Ken g8beq

2929. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-13 21:46:18 UTC
From: S
Topic: 2917 Message: 2929

Hi Steve

Firstly if i use the yoga mic adapted from the file section under maplin mic it works fine although the audio reports are not to good they improved with the xtal change
the mods carried out are the varactor diode mod again in files by G8EEL using 2 diodes i found problems with others but this one is fine all is kept neat using pads glued to where the varicon was.
another mod done is the AGC by Pa0rcl using a small bit of pcb mounted above the board and held in place with stiff wire soldered to earth on the main board no more than 1 - 2 cms just clearing onboard components.
I also have a lit up display changed the original and an internal psu from the mains only good for a couple of amps but more than adequate.

My feelings are that the mods done are not affecting the radio as the yoga mic is fine but the mics i have tried since have had no internal mods done and are as standard

thanks Simon

--- In mkars80@..., Steve Drury <steve@...> wrote:
>
> Shouldn't need any modifying if you are using a standard electret
> microphone... remind me of the other mods you have made to the radio,
> perhaps there is a clue there.
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> Steve
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> On 10/13/2013 9:12 PM, S wrote:
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> > @ steve should i start trying the capacitor mod you suggested earlier in this thread ??
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> > regards Simon G0MUC
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> > --- In mkars80@..., "S" <afc007@> wrote:
> >> Hi Daniel
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> >> Interesting reading, but to answer some of your points
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discovered / believe the desk mic has a fault on the basis as it is keyed the mkars unlocks the huff and puff and startsto do its drift, if i pick the mic up and physically move it around loads of crackling can be heard as if a bad earth or loose connection inside it. Maybe i will strip it down and investigate later.
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> >>
> >> --- In mkars80@yahoogroups.co.uk, Daniel Ricardo Perez <danyperez1@> wrote:
> >>> Simon:
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> >>> Daniel Perez LW1ECP
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> >>> Fecha: viernes, 11 de octubre de 2013, 6:57
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just to see if it cures it - you will need a larger value for decent audio. Steve
> >>>
> >>>
> >>> From: S <afc007@
> >>> Date: 06/10/2013 21:42 (GMT+00:00)
> >>> Hi Steve, Sorry im going to sound really stupid now lol
> >>> where am i trying a 100nf ??
> >>> ie i built the mkars80 into a large enclosure and from the main pcb using the jack socket a cable to a 4 pin mic socket on the fascia so it seemed like a regular set.
> >>> So im not sure where to put a capacitor sorry
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> >>> --- In mkars80@..., Steve G6ALU <steve@ wrote:
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> >>> Steve
> >>>
> >>>
> >>>
> >>> From: S <afc007@
> >>> Date: 06/10/2013Â 20:15Â (GMT+00:00)
> >>> yes even when the mic level is turned to zero the radio starts drifting, but once the mic is removed and the yoga mic attached its fine.
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> >>> --- In mkars80@yahoogroups.co.uk, Steve Drury <steve@ wrote:
> >>> Mic could have excessive output level, can you turn the level down? Steve
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> >>> On 06/10/2013 19:12, S wrote:
> >>> I had problems with muffled audio after using an yoga mic found in the help files converted hand held mic, so steve sent some replacement xtals as this may have been the problem. It did improve the audio thank you.
> >>> however in an attempt to get a punchier signal out QRP i wired up an old CB Radio desk mic which is an electret based device powered with a 9v battery (also has an echo facility but i do not think appropriate for 80m lol).
> >>> The problem now is the Huff & Puff locks but as soon as i key the mic it unlocks drifting up or down the band only a few 100hz but not acceptable in qso. Now even without any speech when keying mic this happens, I have tested by keying or forcing tx with no mic attached and its fine solid so its something to do with the microphone.
> >>> any ideas how to stop this, Im wondering if the mic is trying to draw current and destabilising the MKARS80 but i do not know what to try to stop this, the mic requires no additional power as it should be self sufficient with the internal battery.
> >>> Thanks in advance Simon
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> > Yahoo! Groups Links
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> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2014.0.4158 / Virus Database: 3614/6746 - Release Date: 10/13/13
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>

2930. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-13 21:52:29 UTC
From: S
Topic: 2917 Message: 2930

Hi Ken

unfortunately i was using a yoga mic modded as per file section. titled maplin mic i had problems with reported audio steve sent replacement xtals it helped but i was not happy. I done the varactor mod and changed to a desk mic hence this thread but going back to the yoga all is fine.
The mic im trying now is one from a modern cb radio but it is electret and when i monitor the audio it sounds very good the only problem as soon as the ptt is released the radio unlocks and drifts a few hundred hertz

regards Simon

--- In mkars80@..., "Ken Greenough" <g0wbm@...> wrote:
>
> Hello Simon,
> Did you have this problem before you did the
> varicap mod ' ? If not it's the first place to look hi.
> Have you tried a large value electrolytic across the
> power supply at the set ? Sounds as if you have a
> voltage transient when you change the load on the
> supply and it's reaching the varicap.
> 73 Ken g8beq
>

2931. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-13 21:59:40 UTC
From: Steve G6ALU
Topic: 2917 Message: 2931

Simon, what regulates the varicap voltage?
Steve

Sent from Samsung tablet

-------- Original message --------
From: S <afc007@live.co.uk>
Date: 13/10/2013 22:52 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic

Hi Ken

unfortunately i was using a yoga mic modded as per file section. titled maplin mic i had problems with reported audio steve sent replacement xtals it helped but i was not happy. I done the varactor mod and changed to a desk mic hence this thread but going back to the yoga all is fine.
The mic im trying now is one from a modern cb radio but it is electret and when i monitor the audio it sounds very good the only problem as soon as the ptt is released the radio unlocks and drifts a few hundred hertz

regards Simon

--- In mkars80@yahoogroups.co.uk, "Ken Greenough" <g0wbm@...> wrote:
>
> Hello Simon,
> Did you have this problem before you did the
> varicap mod ' ? If not it's the first place to look hi.
> Have you tried a large value electrolytic across the
> power supply at the set ? Sounds as if you have a
> voltage transient when you change the load on the
> supply and it's reaching the varicap.
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Yahoo! Groups Links

2932. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-13 22:06:56 UTC
From: S
Topic: 2917 Message: 2932

Hi Steve

The onboard 7808 taken from one pad where the pot for fine tune used to be, i do have some large package 7808's should i try giving its own regulator i did that for the digital display with a 7805 ??

regards Simon

--- In mkars80@..., Steve G6ALU <steve@...> wrote:
>
> Simon, what regulates the varicap voltage?
> Steve
>
>
>
>
> Sent from Samsung tablet
>
> -------- Original message --------
> From: S <afc007@...>
> Date: 13/10/2013 22:52 (GMT+00:00)
> To: mkars80@...
> Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
>
> Hi Ken
>
> unfortunately i was using a yoga mic modded as per file section. titled maplin mic i had problems with reported audio steve sent replacement xtals it helped but i was not happy.
> I done the varactor mod and changed to a desk mic hence this thread but going back to the yoga all is fine.
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> regards Simon
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> --- In mkars80@..., "Ken Greenough" <g0wbm@> wrote:
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> ---
>
> Yahoo! Groups Links
>

2933. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-14 07:28:22 UTC
From: steve@radio-kits.co.uk
Topic: 2933 Message: 2933
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2934. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-14 15:45:44 UTC
From: steve@...
Topic: 2917 Message: 2934

I should have said 78L08...
Steve

On 2013-10-14 08:28, steve@... wrote:
> No the 78L05 should be fine, its a good quality one. Make sure you
> have 8V coming out of it though ans it isn't getting hot.
> Steve
>
> ----- Reply message -----
> From: "S" <afc007@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
> Date: Sun, Oct 13, 2013 23:06
>
> Hi Steve
>
> The onboard 7808 taken from one pad where the pot for fine tune used
> to be, i do have some large package 7808's should i try giving its own
> regulator i did that for the digital display with a 7805 ??
>
> regards Simon
>
> --- In mkars80@..., Steve G6ALU <steve@...> wrote:
>>
>> Simon, what regulates the varicap voltage?
>> Steve
>>
>>
>>
>>
>> Sent from Samsung tablet
>>
>> -------- Original message --------
>> From: S <afc007@...>
>> Date: 13/10/2013 22:52 (GMT+00:00)
>> To: mkars80@...
>> Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
>>
>> Hi Ken
>>
>> unfortunately i was using a yoga mic modded as per file section.
> titled maplin mic i had problems with reported audio steve sent
> replacement xtals it helped but i was not happy.
>> I done the varactor mod and changed to a desk mic hence this thread
> but going back to the yoga all is fine.

>> The mic im trying now is one from a modern cb radio but it is
> electret and when i monitor the audio it sounds very good the only
> problem as soon as the ptt is released the radio unlocks and drifts a
> few hundred hertz
>>
>> regards Simon
>>
>>
>> --- In mkars80@..., "Ken Greenough" <g0wbm@> wrote:
>> >
>> > Hello Simon,
>> > Did you have this problem before you did the
>> > varicap mod ' ?Â Â If not it's the first place to look hi.
>> > Have you tried a large value electrolytic across the
>> > power supply at the set ? Sounds as if you have a
>> > voltage transient when you change the load on the
>> > supply and it's reaching the varicap.
>> > 73 Ken g8beq
>> >
>>
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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> Links:
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> [1]
> http://uk.groups.yahoo.com/group/mkars80/join;_ylc=X3oDMTJnMmFzOXJzBF9TAzk3NDkwNTAzBGdyc
ElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzgxNzM1NzEy
> [2]
> http://uk.groups.yahoo.com/group/mkars80;_ylc=X3oDMTJlOGtnaGxrBF9TAzk3NDkwNTAzBGdycElkAz
IwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNocGYEc3RpbWUDMTM4MTczNTcxMg--
> [3] http://info.yahoo.com/legal/uk/yahoo/utos/en-gb/details.html

2935. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-14 18:45:09 UTC
From: S
Topic: 2917 Message: 2935

Hi Steve

yes the 78L08 is fine slightly warm after about an hour and the test meter shows 8.1 volts constant with no variation checked from the pad where i have taken power (the hole where the 10k fine tuning pot was.

Simon G0MUC

--- In mkars80@..., steve@... wrote:
>
> I should have said 78L08...
> Steve
>
> On 2013-10-14 08:28, steve@... wrote:
> > No the 78L05 should be fine, its a good quality one. Make sure you
> > have 8V coming out of it though ans it isn't getting hot.
> > Steve
> >
> > ----- Reply message -----
> > From: "S" <afc007@...>
> > To: <mkars80@yahoogroups.co.uk>
> > Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
> > Date: Sun, Oct 13, 2013 23:06
> >
> > Hi Steve
> >
> > The onboard 7808 taken from one pad where the pot for fine tune used
> > to be, i do have some large package 7808's should i try giving its own
> > regulator i did that for the digital display with a 7805 ??
> >
> > regards Simon
> >
> > --- In mkars80@..., Steve G6ALU <steve@> wrote:
> >>
> >> Simon, what regulates the varicap voltage?
> >> Steve
> >>
> >>
> >>
> >>
> >> Sent from Samsung tablet
> >>
> >> -------- Original message --------
> >> From: S <afc007@>
> >> Date: 13/10/2013 22:52 (GMT+00:00)

> >> To: mkars80@...
> >> Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
> >>
> >> Hi Ken
> >>
> >> unfortunately i was using a yoga mic modded as per file section.
> > titled maplin mic i had problems with reported audio steve sent
> > replacement xtals it helped but i was not happy.
> >> I done the varactor mod and changed to a desk mic hence this thread
> > but going back to the yoga all is fine.
> >> The mic im trying now is one from a modern cb radio but it is
> > electret and when i monitor the audio it sounds very good the only
> > problem as soon as the ptt is released the radio unlocks and drifts a
> > few hundred hertz
> >>
> >> regards Simon
> >>
> >>
> >> --- In mkars80@..., "Ken Greenough" <g0wbm@> wrote:
> >> >
> >> > Hello Simon,
> >> > Did you have this problem before you did the
> >> > varicap mod ' ?Ã□Â Ã□Â If not it's the first place to look hi.
> >> > Have you tried a large value electrolytic across the
> >> > power supply at the set ? Sounds as if you have a
> >> > voltage transient when you change the load on the
> >> > supply and it's reaching the varicap.
> >> > 73 Ken g8beq
> >> >
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> >> Yahoo! Groups Links
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> > Yahoo! Groups Links
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> > Links:
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> > [1]

> > http://uk.groups.yahoo.com/group/mkars80/join;_ylc=X3oDMTJnMmFzOXJzBF9TAzk3NDkwNTAzBGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzgxNzM1NzEy
> > [2]
> > http://uk.groups.yahoo.com/group/mkars80;_ylc=X3oDMTJlOGtnaGxrBF9TAzk3NDkwNTAzBGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNocGYEc3RpbWUDMTM4MTczNTcxMg--
> > [3] http://info.yahoo.com/legal/uk/yahoo/utos/en-gb/details.html
>

2936. Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-16 10:14:10 UTC
From: christopher_iles@btinternet.com
Topic: 2903 Message: 2936

Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
Thanks,
Chris.

--- In mkars80@..., "steve@..." <steve@...> wrote:
>
> Chris, it all tallies OK. All PCBs sold are V3, version numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> Steve
>
>
>
> ----- Reply message -----
> From: "christopher_iles@..." <christopher_iles@...>
> To: <mkars80@....uk>
> Subject: [mkars80] Re: deaf receiver
> Date: Mon, Sep 23, 2013 10:03
>
>
> Hi Steve,
>
> Thanks for the super fast reply!
>
> I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
>
> The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
>
> These are identical to the ones in the photo on the home page. Also, there doesn't appear to be any drift and the huff and puff isn't going mad.
>
> Thanks for taking your time to help, it is really appreciated.
>
> Kind regards,
>
> Chris.
> --- In mkars80@..., "steve@..." <steve@> wrote:

> >
> > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > Steve
> >
> >
> >
> > ----- Reply message -----
> > From: "christopher_iles@" <christopher_iles@>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: deaf receiver
> > Date: Mon, Sep 23, 2013 07:31
> >
> >
> > Hi Steve,
> >
> > Many thanks for the reply.
> >
> > On power up the display shows version 1.1 software.
> >
> > I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
> >
> > I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
> >
> > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.
> >
> > I did a check on the low pass filter as well in case that was the culprit but that's ok too.
> >
> > When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
> >
> > When I hear stations the audio quality is good but the signals are very weak compared with my main station receiver.
> >
> > That's as far as I've got Steve.
> >
> > Kind regards,
> >
> > Chris. G0VOE.
> >
> > --- In mkars80@..., Steve Drury <steve@> wrote:
> > >
> > > Ticking noise... when you power up what software version does it show?

> > >
> > > Steve
> > >
> > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > >
> > > >
> > > > Hi Chris,
> > > >
> > > > You've probably seen mention before that the biggest cause of deafness
> > > > is poor connections on the mixer transformers, it takes a lot of heat
> > > > to break down the enamel on the wire... apart from that do a voltage
> > > > check. Does it transmit OK?
> > > >
> > > > Steve G6ALU
> > > >
> > > >
> > > >
> > > >
> > > > Sent from Samsung tablet
> > > >
> > > >
> > > >
> > > > -------- Original message --------
> > > > From: christopher_iles@
> > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > To: mkars80@....uk
> > > > Subject: [mkars80] deaf receiver
> > > >
> > > >
> > > > Hello all,
> > > >
> > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > >
> > > > Many hours (and transistors) later, I have the receiver working but it
> > > > seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
> > > >
> > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > replaced the diodes as a matter of course, the voltages compared with
> > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > 30 feet.
> > > >
> > > > Any ideas please?
> > > >
> > > > Thanks. Chris, G0VOE.
> > > >
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> > > > Yahoo! Groups Links
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> > > >
> > > > No virus found in this message.
> > > > Checked by AVG - www.avg.com <http://www.avg.com>
> > > > Version: 2013.0.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> >
> > Yahoo! Groups Links
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> Yahoo! Groups Links
>

2937. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-16 10:23:41 UTC
From: steve@radio-kits.co.uk
Topic: 2907 Message: 2937
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2938. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-16 10:33:18 UTC
From: CHRIS ILES
Topic: 2903 Message: 2938

Not tested the transmitter yet Steve.
Chris.

From: "steve@..." <steve@...>
To: mkars80@...
Sent: Wednesday, 16 October 2013, 11:23
Subject: Re: [mkars80] Re: deaf receiver

What power do you get in transmit? Confirmation of correct TX operation eliminates much of the circuitry.
Steve

----- Reply message -----
From: "christopher_iles@..." <christopher_iles@...>
To: <mkars80@...>
Subject: [mkars80] Re: deaf receiver
Date: Wed, Oct 16, 2013 11:14

Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
Thanks,
Chris.

--- In mkars80@....uk, "steve@..." <steve@...> wrote:
>
> Chris, it all tallies OK. All PCBs sold are V3, version
numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> Steve
>
>
>
> ----- Reply message -----
> From: "christopher_iles@..." <christopher_iles@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Mon, Sep 23, 2013 10:03
>
>
>
> Hi Steve,

>
> Thanks for the super fast reply!
>
> I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
>
> The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
>
> These are identical to the ones in the photo on the home page. Also, there doesn't appear to be any drift and the huff and puff isn't going mad.
>
> Thanks for taking your time to help, it is really appreciated.
>
> Kind regards,
>
> Chris.
> --- In mkars80@yahoogroups.co.uk, "steve@..." <steve@> wrote:
> >
> > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > Steve
> >
> >
> >
> > ----- Reply message -----
> > From: "christopher_iles@" <christopher_iles@>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: deaf receiver
> > Date: Mon, Sep 23, 2013 07:31
> >
> >
> > Hi Steve,
> >
> > Many thanks for the reply.
> >
> > On power up the display shows version 1.1 software.
> >
> > I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
> >
> > I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
> >
> > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.

> >
> > I did a check on the low pass filter as well in case that was the culprit but that's ok too.
> >
> > When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
> >
> > When I hear stations the audio quality is good but the signals are very weak compar ed with my main station receiver.
> >
> > That's as far as I've got Steve.
> >
> > Kind regards,
> >
> > Chris. G0VOE.
> >
> > --- In mkars80@..., Steve Drury <steve@> wrote:
> > >
> > > Ticking noise... when you power up what software version does it show?
> > >
> > > Steve
> > >
> > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > >
> > > >
> > > > Hi Chris,
> > > >
> > > > You've probably seen mention before that the biggest cause of deafness
> > > > is poor connections on the mixer transformers, it takes a lot of heat
> > > > to break down the enamel on the wire... apart from that do a voltage
> > > > check. Does it transmit OK?
> > > >
> > > >
Steve G6ALU
> > > >
> > > >
> > > >
> > > >
> > > > Sent from Samsung tablet
> > > >
> > > >
> > > >
> > > > -------- Original message --------
> > > > From: christopher_iles@
> > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > To: mkars80@...
> > > > Subject: [mkars80] deaf receiver
> > > >
> > > >
> > > > Hello all,

> > > >
> > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > >
> > > > Many hours (and transistors) later, I have the receiver working but it
> > > > seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
&
gt; > > >
> > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > replaced the diodes as a matter of course, the voltages compared with
> > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > 30 feet.
> > > >
> > > > Any ideas please?
> > > >
> > > > Thanks. Chris, G0VOE.
> > > >
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> > > >
> > > > Yahoo! Groups Links
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> > > >
> > > > No virus found in this message.
> > > > Checked by AVG - www.avg.com <http://www.avg.com>
> > > > Version: 2013.0
.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> > Yahoo! Groups Links
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>
> Yahoo! Groups Links

>

Yahoo! Groups Links

To unsubscribe from this group, send an email to:
   mkars80-unsubscribe@...

2939. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-16 12:56:06 UTC
From: steve@radio-kits.co.uk
Topic: 2907 Message: 2939
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2940. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-16 13:31:17 UTC
From: CHRIS ILES
Topic: 2903 Message: 2940

Will do in a bit and let you know!
Cheers!

From: "steve@..." <steve@...>
To: mkars80@yahoogroups.co.uk
Sent: Wednesday, 16 October 2013, 13:56
Subject: Re: [mkars80] Re: deaf receiver

Give it a go, let's see what happens....after the OP transistor bias has been adjusted!

----- Reply message -----
From: "CHRIS ILES" <christopher_iles@...>
To: "mkars80@yahoogroups.co.uk" <mkars80@...>
Subject: [mkars80] Re: deaf receiver
Date: Wed, Oct 16, 2013 11:33

Not tested the transmitter yet Steve.
Chris.

From: "steve@..." <steve@...>
To: mkars80@...
Sent: Wednesday, 16 October 2013, 11:23
Subject: Re: [mkars80] Re: deaf receiver

What power do you get in transmit? Confirmation of correct TX operation eliminates much of the circuitry.
Steve

----- Reply message -----
From: "christopher_iles@..." <christopher_iles@...>
To: <mkars80@...>
Subject: [mkars80] Re: deaf receiver
Date: Wed, Oct 16, 2013 11:14

Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
Thanks,
Chris.

--- In mkars80@..., "steve@..." <steve@...> wrote:
>

> Chris, it all tallies OK. All PCBs sold are V3,
version
numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> Steve
>
>
>
> ----- Reply message -----
> From: "christopher_iles@..." <christopher_iles@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Mon, Sep 23, 2013 10:03
>
>
> Hi Steve,
>
> Thanks for the super fast reply!
>
> I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
>
> The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
>
> These are identical to the ones in the photo on the home page. Also, there doesn'
t appear to be any drift and the huff and puff isn't going mad.
>
> Thanks for taking your time to help, it is really appreciated.
>
> Kind regards,
>
> Chris.
> --- In mkars80@..., "steve@..." <steve@> wrote:
> >
> > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > Steve
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "christopher_iles@" <christopher_iles@>
> > > To: <mkars80@...>
> > > Subject: [mkars80] Re: deaf receiver
> > > Date: Mon, Sep 23, 2013 07:31
> > >

> >
> > Hi Steve,
> >
> >
Many
thanks for the reply.
> >
> > On power up the display shows version 1.1 software.
> >
> > I've not tested the transmitter at all yet, I wanted to get the receiver working
properly first.
> >
> > I went for the mixer transformers, removed them, rewound them and put them back. The
solder joints look good but I will go over them again.
> >
> > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and
electrolytics on the pcb are in the right way round, all other components are in the
correct place too.
> >
> > I did a check on the low pass filter as well in case that was the culprit but that's ok
too.
> >
> > When I compared the transistor voltages against the chart they were all ok which then
suggested a mixer or filter problem.
> >
> > When I hear stations the audio quality is good but the
signals are very weak compar
ed with my main station receiver.
> >
> > That's as far as I've got Steve.
> >
> > Kind regards,
> >
> > Chris. G0VOE.
> >
> > --- In mkars80@....uk, Steve Drury <steve@> wrote:
> > >
> > > Ticking noise... when you power up what software version does it show?
> > >
> > > Steve
> > >
> > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > >
> > > >
> > > > Hi Chris,
> > > >
> > > > You've probably seen mention before that the biggest cause of deafness
> > > > is poor connections on the mixer transformers, it takes a lot of heat
> > > > to break down the enamel on the wire... apart from that do a voltage
> > > > check. Does it transmit OK?

> > >
>
> > > >
Steve G6ALU
> > > >
> > > >
> > > >
> > > >
> > > > Sent from Samsung tablet
> > > >
> > > >
> > > >
> > > > -------- Original message --------
> > > > From: christopher_iles@
> > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > To: mkars80@...
> > > > Subject: [mkars80] deaf receiver
> > > >
> > > >
> > > > Hello all,
> > > >
> > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > >
> > > > Many hours (and transistors) later, I have the receiver working but it
> > > > seems quite deaf. There is also a ticking
noise at roughly 1 Hertz.
&
gt; > > >
> > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > replaced the diodes as a matter of course, the voltages compared with
> > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > 30 feet.
> > > >
> > > > Any ideas please?
> > > >
> > > > Thanks. Chris, G0VOE.
> > > >
> > > >
> > > >
> > > > ------------------------------------
> > > >
> > > > Yahoo! Groups Links
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> > > > No virus found in this message.
> > > > Checked by AVG - www.avg.com <http://www.avg.com>
> >
> > Version: 2013.0
..3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> > Yahoo! Groups Links
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>
> Yahoo! Groups Links
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Yahoo! Groups Links

mkars80-fullfeatured@...

To unsubscribe from this group, send an email to:
mkars80-unsubscribe@yahoogroups.co.uk

2941. Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-16 15:52:30 UTC
From: christopher_iles@btinternet.com
Topic: 2903 Message: 2941

Hi Steve,
Fired up the transmitter, full 5 watts and brilliant audio! However, on transmit there is still hissing coming out of the loudspeaker. I tested the tx into a dummy load and my partner listened on an rx downstairs and the audio was bang on. What next??? Might just buy a kit from you and build it myself...this one's cost me about £100 quid so far! Hi!
Cheers,

--- In mkars80@..., CHRIS ILES <christopher_iles@...> wrote:
>
> Will do in a bit and let you know!
> Cheers!
>
>
> _____
> From: "steve@..." <steve@...>
> To: mkars80@yahoogroups.co.uk
> Sent: Wednesday, 16 October 2013, 13:56
> Subject: Re: [mkars80] Re: deaf receiver
>
>
>
>
>
>
> Give it a go, let's see what happens....after the OP transistor bias has been adjusted!
>
>
>
>
> ----- Reply message -----
> From: "CHRIS ILES" <christopher_iles@...>
> To: "mkars80@..." <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Wed, Oct 16, 2013 11:33
>
>
>
> Not tested the transmitter yet Steve.
> Chris.
> ï¿½
>
>
> _____
> From: "steve@..." <steve@...>
> To: mkars80@...

> Sent: Wednesday, 16 October 2013, 11:23
> Subject: Re: [mkars80] Re: deaf receiver
>
>
>
>
>
>
> What power do you get in transmit? Confirmation of correct TX operation eliminates much of the circuitry.
> Steve
>
>
>
> ----- Reply message -----
> From: "christopher_iles@..." <christopher_iles@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Wed, Oct 16, 2013 11:14
>
>
> Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
> I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
> Thanks,
> Chris.
>
> --- In mkars80@yahoogroups.co.uk, "steve@..." <steve@> wrote:
> >
> > Chris, it all tallies OK. All PCBs sold are V3,
> version
> numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> > Steve
> >
> >
> >
> > ----- Reply message -----
> > From: "christopher_iles@" <christopher_iles@>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: deaf receiver
> > Date: Mon, Sep 23, 2013 10:03
> >
> >
> > Hi Steve,

> >
> > Thanks for the super fast reply!
> >
> > I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
> >
> > The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
> >
> > These are identical to the ones in the photo on the home page. Also, there doesn'
> t appear to be any drift and the huff and puff isn't going mad.
> >
> > Thanks for taking your time to help, it is really appreciated.
> >
> > Kind regards,
> >
> > Chris.
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > > Steve
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "christopher_iles@" <christopher_iles@>
> > > To: <mkars80@yahoogroups.co.uk>
> > > Subject: [mkars80] Re: deaf receiver
> > > Date: Mon, Sep 23, 2013 07:31
> > >
> > >
> > > Hi Steve,
> > >
> > >
> Many
> thanks for the reply.
> > >
> > > On power up the display shows version 1.1 software.
> > >
> > > I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
> > >
> > > I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
> > >
> > > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the

correct place too.
> > >
> > > I did a check on the low pass filter as well in case that was the culprit but that's ok too.
> > >
> > > When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
> > >
> > > When I hear stations the audio quality is good but the
> signals are very weak compar
> ed with my main station receiver.
> > >
> > > That's as far as I've got Steve.
> > >
> > > Kind regards,
> > >
> > > Chris. G0VOE.
> > >
> > > --- In mkars80@..., Steve Drury <steve@> wrote:
> > > >
> > > > Ticking noise... when you power up what software version does it show?
> > > >
> > > > Steve
> > > >
> > > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > > >
> > > > >
> > > > > Hi Chris,
> > > > >
> > > > > You've probably seen mention before that the biggest cause of deafness
> > > > > is poor connections on the mixer transformers, ï¿½it takes a lot of heat
> > > > > to break down the enamel on the wire... apart from that do a voltage
> > > > > check. Does it transmit OK?
> > > > >
> > >
> > > > > >
> Steve G6ALU
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > Sent from Samsung tablet
> > > > > >
> > > > > >
> > > > > >
> > > > > > -------- Original message --------
> > > > > > From: christopher_iles@
> > > > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > > > To: mkars80@...
> > > > > > Subject: [mkars80] deaf receiver
> > > > > >

> > > > >
> > > > > Hello all,
> > > > >
> > > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > > >
> > > > > Many hours (and transistors) later, I have the receiver working but it
> > > > > seems quite deaf. There is also a ticking
> noise at roughly 1 Hertz.
> &
> gt; > > >
> > > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > > replaced the diodes as a matter of course, the voltages compared with
> > > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > > 30 feet.
> > > > >
> > > > > Any ideas please?
> > > > >
> > > > > Thanks. Chris, G0VOE.
> > > > >
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> > > > > Yahoo! Groups Links
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> > > > >
> > > > > No virus found in this message.
> > > > > Checked by AVG - www.avg.com <http://www.avg.com>
> > >
> > > Version: 2013.0
> ..3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> > Yahoo! Groups Links
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> ------------------------------------
>
> Yahoo! Groups Links
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>
> ï¿½mkars80-fullfeatured@...
>
> To unsubscribe from this group, send an email to:
> ï¿½ ï¿½mkars80-unsubscribe@...
>

2942. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-16 16:09:38 UTC
From: steve@radio-kits.co.uk
Topic: 2907 Message: 2942
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2943. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-17 06:22:26 UTC
From: CHRIS ILES
Topic: 2903 Message: 2943

Hi Steve,
The radio's standard but the pcb has had a hard time! I'm going to persevere a while longer with it though as it's getting there slowly. However, I will bear your very kind offer in mind!
Best regards,
Chris.

_____
From: "steve@..." <steve@radio-kits.co.uk>
To: mkars80@...
Sent: Wednesday, 16 October 2013, 17:09
Subject: Re: [mkars80] Re: deaf receiver

If its completely standard you could always send it to me to look at...I will charge you postage.
Steve

----- Reply message -----
From: "christopher_iles@btinternet.com" <christopher_iles@...>
To: <mkars80@...>
Subject: [mkars80] Re: deaf receiver
Date: Wed, Oct 16, 2013 16:52

Hi Steve,
Fired up the transmitter, full 5 watts and brilliant audio! However, on transmit there is still hissing coming out of the loudspeaker. I tested the tx into a dummy load and my partner listened on an rx downstairs and the audio was bang on. What next??? Might just buy a kit from you and build it myself...this one's cost me about £100 quid so far! Hi!
Cheers,

--- In mkars80@..., CHRIS ILES <christopher_iles@...> wrote:
>
> Will do in a bit and let you know!
> Cheers!
>
>
> _____
> From: "steve@..." <steve@...>
> To: mkars80@....uk
> Sent: Wednesday, 16 October 2013, 13:56
> Subject: Re: [mkars80] Re: deaf receiver
>
>
>
>
>

>
> Give it a go, let's see what happens....after the OP transistor bias has been adjusted!
>
>
>
>
> ----- Reply message -----
> From: "CHRIS ILES" <christopher_iles@...>
> To: "mkars80@..." <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Wed, Oct 16, 2013 11:33
>
>
>
> Not tested the transmitter yet Steve.
> Chris.
> ï¿½
>
>
> _____
> From: "steve@..." <steve@...>
> To: mkars80@....uk
> Sent: Wednesday, 16 October 2013, 11:23
> Subject: Re: [mkars80] Re: deaf receiver
>
>
>
>
>
>
> What power do you get in transmit? Confirmation of correct TX operation eliminates much of the circuitry.
> Steve
>
>
>
> ----- Reply message -----
> From: "christopher_iles@..." <christopher_iles@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Wed, Oct 16, 2013 11:14
>
>
> Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
> I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
> Thanks,

> Chris.
>
> --- In mkars80@yahoogroups.co.uk, "steve@..." <steve@> wrote:
> >
> > Chris, it all tallies OK. All PCBs sold are V3,
> version
> numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> > Steve
> >
> >
> >
> > ----- Reply message -----
> > From: "christopher_iles@" <christopher_iles@>
> > To: <mkars80@....uk>
> > Subject: [mkars80] Re: deaf receiver
> > Date: Mon, Sep 23, 2013 10:03
> >
> >
> > Hi Steve,
> >
> > Thanks for the super fast reply!
> >
> > I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
> >
> > The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
> >
> > These are identical to the ones in the photo on the home page. Also, there doesn'
> t appear to be any drift and the huff and puff isn't going mad.
> >
> > Thanks for taking your time to help, it is really appreciated.
> >
> > Kind regards,
> >
> > Chris.
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > > Steve
> > >
> > >
> > >
> > > ----- Reply message -----

> > > From: "christopher_iles@" <christopher_iles@>
> > > To: <mkars80@...>
> > > Subject: [mkars80] Re: deaf receiver
> > > Date: Mon, Sep 23, 2013 07:31
> > >
> > >
> > > Hi Steve,
> > >
> > >
> Many
> thanks for the reply.
> > >
> > > On power up the display shows version 1.1 software.
> > >
> > > I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
> > >
> > > I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
> > >
> > > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.
> > >
> > > I did a check on the low pass filter as well in case that was the culprit but that's ok too.
> > >
> > > When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
> > >
> > > When I hear stations the audio quality is good but the
> signals are very weak compar
> ed with my main station receiver.
> > >
> > > That's as far as I've got Steve.
> > >
> > > Kind regards,
> > >
> > > Chris. G0VOE.
> > >
> > > --- In mkars80@..., Steve Drury <steve@> wrote:
> > > >
> > > > Ticking noise... when you power up what software version does it show?
> > > >
> > > > Steve
> > > >
> > > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > > >
> > > > >
> > > > > Hi Chris,

> > > > >
> > > > > You've probably seen mention before that the biggest cause of deafness
> > > > > is poor connections on the mixer transformers, ï¿½it takes a lot of heat
> > > > > to break down the enamel on the wire... apart from that do a voltage
> > > > > check. Does it transmit OK?
> > > > >
> > >
> > > > > >
> Steve G6ALU
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > Sent from Samsung tablet
> > > > > >
> > > > > >
> > > > > >
> > > > > > -------- Original message --------
> > > > > > From: christopher_iles@
> > > > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > > > To: mkars80@...
> > > > > > Subject: [mkars80] deaf receiver
> > > > > >
> > > > > >
> > > > > > Hello all,
> > > > > >
> > > > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > > > >
> > > > > > Many hours (and transistors) later, I have the receiver working but it
> > > > > > seems quite deaf. There is also a ticking
> noise at roughly 1 Hertz.
> &
> gt; > > >
> > > > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > > > replaced the diodes as a matter of course, the voltages compared with
> > > > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > > > 30 feet.
> > > > > >
> > > > > > Any ideas please?
> > > > > >
> > > > > > Thanks. Chris, G0VOE.
> > > > > >
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> > > > > > Yahoo! Groups Links
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> > > > >
> > > > > No virus found in this message.
> > > > > Checked by AVG - www.avg.com <http://www.avg.com>
> > >
> > > Version: 2013.0
> ..3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> Yahoo! Groups Links
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>
> ï¿½mkars80-fullfeatured@yahoogroups.co.uk
>
> To unsubscribe from this group, send an email to:
> ï¿½ ï¿½mkars80-unsubscribe@...
>

Yahoo! Groups Links

2944. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-17 17:05:40 UTC
From: S
Topic: 2917 Message: 2944

Ok Next logical stage..
I have removed all mods bar the display
The Display has its own regulator 78L05 off board to give power and this does not affect performance of the mkars80
So im back to standard varicon tuning the agc removed and powered straight from external psu rather than the small supply i built in the enclosure.
results the same Huff and Puff locks key the mic make an over still locked, Release the ptt and off it goes drifting for a couple of sec a few 100 hertz and then relocks.
So now I am at a loss with the yoga mic fine but still poor audio. use a different mic super audio and the above.
I have picked up a second mklars80 private sale from ebay and its in a poor shape but after a tidy i have got it working so i think my board i will remove from my enclosure and set in the correct box and transfer the newer board into my custom enclosure and see what is the result
Mean while if any other ideas to the initial problem let me know I wil try and source a poundshop pc mic and try that over the weekend.

Simon G0MUC

--- In mkars80@..., steve@... wrote:
>
> I should have said 78L08...
> Steve
>
> On 2013-10-14 08:28, steve@... wrote:
> > No the 78L05 should be fine, its a good quality one. Make sure you
> > have 8V coming out of it though ans it isn't getting hot.
> > Steve
> >
> > ----- Reply message -----
> > From: "S" <afc007@...>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
> > Date: Sun, Oct 13, 2013 23:06
> >
> > Hi Steve
> >
> > The onboard 7808 taken from one pad where the pot for fine tune used
> > to be, i do have some large package 7808's should i try giving its own
> > regulator i did that for the digital display with a 7805 ??
> >
> > regards Simon
> >
> > --- In mkars80@..., Steve G6ALU <steve@> wrote:
> >>

> >> Simon, what regulates the varicap voltage?
> >> Steve
> >>
> >>
> >>
> >>
> >> Sent from Samsung tablet
> >>
> >> -------- Original message --------
> >> From: S <afc007@>
> >> Date: 13/10/2013 22:52 (GMT+00:00)
> >> To: mkars80@...
> >> Subject: [mkars80] Re: Help with Drifting while in TX with Base Mic
> >>
> >> Hi Ken
> >>
> >> unfortunately i was using a yoga mic modded as per file section.
> > titled maplin mic i had problems with reported audio steve sent
> > replacement xtals it helped but i was not happy.
> >> I done the varactor mod and changed to a desk mic hence this thread
> > but going back to the yoga all is fine.
> >> The mic im trying now is one from a modern cb radio but it is
> > electret and when i monitor the audio it sounds very good the only
> > problem as soon as the ptt is released the radio unlocks and drifts a
> > few hundred hertz
> >>
> >> regards Simon
> >>
> >>
> >> --- In mkars80@..., "Ken Greenough" <g0wbm@> wrote:
> >> >
> >> > Hello Simon,
> >> > Did you have this problem before you did the
> >> > varicap mod ' ?Ã□Â Ã□Â If not it's the first place to look hi.
> >> > Have you tried a large value electrolytic across the
> >> > power supply at the set ? Sounds as if you have a
> >> > voltage transient when you change the load on the
> >> > supply and it's reaching the varicap.
> >> > 73 Ken g8beq
> >> >
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> >> Yahoo! Groups Links
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> > Yahoo! Groups Links
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> > Links:
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> > [1]
> > http://uk.groups.yahoo.com/group/mkars80/join;_ylc=X3oDMTJnMmFzOXJzBF9TAzk3NDkwNTAzBGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzgxNzM1NzEy
> > [2]
> > http://uk.groups.yahoo.com/group/mkars80;_ylc=X3oDMTJlOGtnaGxrBF9TAzk3NDkwNTAzBGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNocGYEc3RpbWUDMTM4MTczNTcxMg--
> > [3] http://info.yahoo.com/legal/uk/yahoo/utos/en-gb/details.html
> >

2945. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-17 17:47:32 UTC
From: ALLENCrdr@...
Topic: 2917 Message: 2945

Simon

Have a look at Maplin item HW71N.

Allen
M1CXK

2946. Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-17 17:59:04 UTC
From: S
Topic: 2917 Message: 2946

Hi Allen

Thanks just looked @ the maplin's website and that mic looks ok, I
guess some kind of ptt would have to made / added.
Do you know if this is a tried and tested with the Mkars80 I really need to get a working mic with good sounding audio reports and then try others, otherwise i could end up trying numerous only to find a simple non mic related in the future

Simon

De G0MUC

--- In mkars80@..., ALLENCrdr@... wrote:
>
> Simon
>
> Have a look at Maplin item HW71N.
>
> Allen
> M1CXK
>

2947. Re: [mkars80] Re: Help with Drifting while in TX with Base Mic

Yahoo group: mkars80
Date: 2013-10-17 22:25:01 UTC
From: ALLENCrdr@...
Topic: 2917 Message: 2947

Sorry for the delay (club night)

It worked for me simon mine is a grey one, they have changed the colour to black it seems
I put a switch on the top,audio reports have been ok. I tried several, this one for the price and a little work
did the job.if you need a short length of screened cable email direct i have a little left over surplus.
I'm sure there are plenty of microphones that maybe more suitable for portable ops,possibly one of the CB type.

73
Allen
M1CXK

2948. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-18 08:37:19 UTC
From: CHRIS ILES
Topic: 2903 Message: 2948

Hi Steve,

May well take you up on your kind offer. Where do I need to send the radio please?

Regards,

Chris.

From: "steve@..." <steve@...>
To: mkars80@...
Sent: Wednesday, 16 October 2013, 17:09
Subject: Re: [mkars80] Re: deaf receiver

If its completely standard you could always send it to me to look at...I will charge you postage.
Steve

----- Reply message -----
From: "christopher_iles@..." <christopher_iles@...>
To: <mkars80@...>
Subject: [mkars80] Re: deaf receiver
Date: Wed, Oct 16, 2013 16:52

Hi Steve,
Fired up the transmitter, full 5 watts and brilliant audio! However, on transmit there is still hissing coming out of the loudspeaker. I tested the tx into a dummy load and my partner listened on an rx downstairs and the audio was bang on. What next??? Might just buy a kit from you and build it myself...this one's cost me about £100 quid so far! Hi!
Cheers,

--- In mkars80@..., CHRIS ILES <christopher_iles@...> wrote:
>
> Will do in a bit and let you know!
> Cheers!
>
>
> ---
> From: "steve@..." <steve@...>
> To: mkars80@...
> Sent: Wednesday, 16 October 2013, 13:56
> Subject: Re: [mkars80] Re: deaf receiver
>
>
>
>
>

>
> Give it a go, let's see what happens....after the OP transistor bias has been adjusted!
>
>
>
>
> ----- Reply message -----
> From: "CHRIS ILES" <christopher_iles@...>
> To: "mkars80@..." <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Wed, Oct 16, 2013 11:33
>
>
>
> Not tested the transmitter yet Steve.
> Chris.
> ï¿½
>
>
> _____
> From: "steve@..." <steve@...>
> To: mkars80@...
> Sent: Wednesday, 16 October 2013, 11:23
> Subject: Re: [mkars80] Re: deaf receiver
>
>
>
>
>
>
> What power do you get in transmit? Confirmation of correct TX operation eliminates much of the circuitry.
> Steve
>
>
>
> ----- Reply message -----
> From: "christopher_iles@..." <christopher_iles@...>
> To: <mkars80@...>
> Subject: [mkars80] Re: deaf receiver
> Date: Wed, Oct 16, 2013 11:14
>
>
> Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
> I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
> Thanks,

> Chris.
>
> --- In mkars80@..., "steve@..." <steve@> wrote:
> >
> > Chris, it all tallies OK. All PCBs sold are V3,
> version
> numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> > Steve
> >
> >
> >
> > ----- Reply message -----
> > From: "christopher_iles@" <christopher_iles@>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: deaf receiver
> > Date: Mon, Sep 23, 2013 10:03
> >
> >
> > Hi Steve,
> >
> > Thanks for the super fast reply!
> >
> > I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
> >
> > The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
> >
> > These are identical to the ones in the photo on the home page. Also, there doesn'
> t appear to be any drift and the huff and puff isn't going mad.
> >
> > Thanks for taking your time to help, it is really appreciated.
> >
> > Kind regards,
> >
> > Chris.
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > > Steve
> > >
> > >
> > >
> > > ----- Reply message -----

> > > From: "christopher_iles@" <christopher_iles@>
> > > To: <mkars80@...>
> > > Subject: [mkars80] Re: deaf receiver
> > > Date: Mon, Sep 23, 2013 07:31
> > >
> > >
> > > Hi Steve,
> > >
> > >
> Many
> thanks for the reply.
> > >
> > > On power up the display shows version 1.1 software.
> > >
> > > I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
> > >
> > > I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
> > >
> > > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.
> > >
> > > I did a check on the low pass filter as well in case that was the culprit but that's ok too.
> > >
> > > When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
> > >
> > > When I hear stations the audio quality is good but the
> signals are very weak compar
> ed with my main station receiver.
> > >
> > > That's as far as I've got Steve.
> > >
> > > Kind regards,
> > >
> > > Chris. G0VOE.
> > >
> > > --- In mkars80@yahoogroups.co.uk, Steve Drury <steve@> wrote:
> > > >
> > > > Ticking noise... when you power up what software version does it show?
> > > >
> > > > Steve
> > > >
> > > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > > >
> > > > >
> > > > > Hi Chris,

> > > > >
> > > > > You've probably seen mention before that the biggest cause of deafness
> > > > > is poor connections on the mixer transformers, ï¿½it takes a lot of heat
> > > > > to break down the enamel on the wire... apart from that do a voltage
> > > > > check. Does it transmit OK?
> > > > >
> > >
> > > > > >
> Steve G6ALU
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > Sent from Samsung tablet
> > > > > >
> > > > > >
> > > > > >
> > > > > > -------- Original message --------
> > > > > > From: christopher_iles@
> > > > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > > > To: mkars80@...
> > > > > > Subject: [mkars80] deaf receiver
> > > > > >
> > > > > >
> > > > > > Hello all,
> > > > > >
> > > > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > > > >
> > > > > > Many hours (and transistors) later, I have the receiver working but it
> > > > > > seems quite deaf. There is also a ticking
> noise at roughly 1 Hertz.
> &
> gt; > > >
> > > > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > > > replaced the diodes as a matter of course, the voltages compared with
> > > > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > > > 30 feet.
> > > > > >
> > > > > > Any ideas please?
> > > > > >
> > > > > > Thanks. Chris, G0VOE.
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> > > > > > Yahoo! Groups Links
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> > > > >
> > > > > No virus found in this message.
> > > > > Checked by AVG - www.avg.com <http://www.avg.com>
> > >
> > > Version: 2013.0
> ..3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> > > Yahoo! Groups Links
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> > Yahoo! Groups Links
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> Yahoo! Groups Links
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>
> ï¿½mkars80-fullfeatured@...
>
> To unsubscribe from this group, send an email to:
> ï¿½ ï¿½mkars80-unsubscribe@...
>

Yahoo! Groups Links

2949. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-18 10:00:05 UTC
From: steve@radio-kits.co.uk
Topic: 2907 Message: 2949
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2950. Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-26 17:02:16 UTC
From: christopher_iles@btinternet.com
Topic: 2903 Message: 2950

Sorted! Q3 was dragging the audio down..replaced it! Contest on tonight, heard Germany, Spain, France, Sweden and UK stations...well pleased!

--- In mkars80@..., "christopher_iles@..." <christopher_iles@...> wrote:
>
> Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
> I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
> Thanks,
> Chris.
>
> --- In mkars80@..., "steve@..." <steve@> wrote:
> >
> > Chris, it all tallies OK. All PCBs sold are V3, version numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> > Steve
> >
> >
> >
> > ----- Reply message -----
> > From: "christopher_iles@" <christopher_iles@>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: deaf receiver
> > Date: Mon, Sep 23, 2013 10:03
> >
> >
> > Hi Steve,
> >
> > Thanks for the super fast reply!
> >
> > I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
> >
> > The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
> >
> > These are identical to the ones in the photo on the home page. Also, there doesn't appear to be any drift and the huff and puff isn't going mad.
> >
> > Thanks for taking your time to help, it is really appreciated.

> >
> > Kind regards,
> >
> > Chris.
> > --- In mkars80@yahoogroups.co.uk, "steve@" <steve@> wrote:
> > >
> > > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > > Steve
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "christopher_iles@" <christopher_iles@>
> > > To: <mkars80@...>
> > > Subject: [mkars80] Re: deaf receiver
> > > Date: Mon, Sep 23, 2013 07:31
> > >
> > >
> > > Hi Steve,
> > >
> > > Many thanks for the reply.
> > >
> > > On power up the display shows version 1.1 software.
> > >
> > > I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
> > >
> > > I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
> > >
> > > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.
> > >
> > > I did a check on the low pass filter as well in case that was the culprit but that's ok too.
> > >
> > > When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
> > >
> > > When I hear stations the audio quality is good but the signals are very weak compared with my main station receiver.
> > >
> > > That's as far as I've got Steve.
> > >
> > > Kind regards,
> > >

> > > Chris. G0VOE.
> > >
> > > --- In mkars80@..., Steve Drury <steve@> wrote:
> > > >
> > > > Ticking noise... when you power up what software version does it show?
> > > >
> > > > Steve
> > > >
> > > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > > >
> > > > >
> > > > > Hi Chris,
> > > > >
> > > > > You've probably seen mention before that the biggest cause of deafness
> > > > > is poor connections on the mixer transformers, it takes a lot of heat
> > > > > to break down the enamel on the wire... apart from that do a voltage
> > > > > check. Does it transmit OK?
> > > > >
> > > > > Steve G6ALU
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > Sent from Samsung tablet
> > > > >
> > > > >
> > > > >
> > > > > -------- Original message --------
> > > > > From: christopher_iles@
> > > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > > To: mkars80@...
> > > > > Subject: [mkars80] deaf receiver
> > > > >
> > > > >
> > > > > Hello all,
> > > > >
> > > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > > >
> > > > > Many hours (and transistors) later, I have the receiver working but it
> > > > > seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
> > > > >
> > > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > > replaced the diodes as a matter of course, the voltages compared with
> > > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > > 30 feet.
> > > > >
> > > > > Any ideas please?
> > > > >
> > > > > Thanks. Chris, G0VOE.

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> > > > > Yahoo! Groups Links
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> > > > >
> > > > > No virus found in this message.
> > > > > Checked by AVG - www.avg.com <http://www.avg.com>
> > > > > Version: 2013.0.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> > > Yahoo! Groups Links
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> > Yahoo! Groups Links
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2951. Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-26 17:08:18 UTC
From: christopher_iles@btinternet.com
Topic: 2903 Message: 2951

Q3 was dragging the audio down, replaced it and have heard UK, France, Germany, Spain and Sweden tonight. Fantastic! TX is now putting 6w into a dummy load...problems with my aerial means I can't transmit for now but I'm sure it will be good. Brilliant rig!

--- In mkars80@..., "christopher_iles@..." <christopher_iles@...> wrote:
>
> Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
> I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
> Thanks,
> Chris.
>
> --- In mkars80@yahoogroups.co.uk, "steve@..." <steve@> wrote:
> >
> > Chris, it all tallies OK. All PCBs sold are V3, version numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> > Steve
> >
> >
> >
> > ----- Reply message -----
> > From: "christopher_iles@" <christopher_iles@>
> > To: <mkars80@...>
> > Subject: [mkars80] Re: deaf receiver
> > Date: Mon, Sep 23, 2013 10:03
> >
> >
> > Hi Steve,
> >
> > Thanks for the super fast reply!
> >
> > I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
> >
> > The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
> >
> > These are identical to the ones in the photo on the home page. Also, there doesn't appear to be any drift and the huff and puff isn't going mad.
> >

> > Thanks for taking your time to help, it is really appreciated.
> >
> > Kind regards,
> >
> > Chris.
> > --- In mkars80@..., "steve@" <steve@> wrote:
> > >
> > > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > > Steve
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "christopher_iles@" <christopher_iles@>
> > > To: <mkars80@...>
> > > Subject: [mkars80] Re: deaf receiver
> > > Date: Mon, Sep 23, 2013 07:31
> > >
> > >
> > > Hi Steve,
> > >
> > > Many thanks for the reply.
> > >
> > > On power up the display shows version 1.1 software.
> > >
> > > I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
> > >
> > > I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
> > >
> > > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and electrolytics on the pcb are in the right way round, all other components are in the correct place too.
> > >
> > > I did a check on the low pass filter as well in case that was the culprit but that's ok too.
> > >
> > > When I compared the transistor voltages against the chart they were all ok which then suggested a mixer or filter problem.
> > >
> > > When I hear stations the audio quality is good but the signals are very weak compared with my main station receiver.
> > >
> > > That's as far as I've got Steve.
> > >
> > > Kind regards,

> > >
> > > Chris. G0VOE.
> > >
> > > --- In mkars80@..., Steve Drury <steve@> wrote:
> > > >
> > > > Ticking noise... when you power up what software version does it show?
> > > >
> > > > Steve
> > > >
> > > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > > >
> > > > >
> > > > > Hi Chris,
> > > > >
> > > > > You've probably seen mention before that the biggest cause of deafness
> > > > > is poor connections on the mixer transformers, it takes a lot of heat
> > > > > to break down the enamel on the wire... apart from that do a voltage
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> > > > >
> > > > > Steve G6ALU
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > Sent from Samsung tablet
> > > > >
> > > > >
> > > > >
> > > > > -------- Original message --------
> > > > > From: christopher_iles@
> > > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > > To: mkars80@....uk
> > > > > Subject: [mkars80] deaf receiver
> > > > >
> > > > >
> > > > > Hello all,
> > > > >
> > > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > > >
> > > > > Many hours (and transistors) later, I have the receiver working but it
> > > > > seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
> > > > >
> > > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > > replaced the diodes as a matter of course, the voltages compared with
> > > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > > 30 feet.
> > > > >
> > > > > Any ideas please?
> > > > >

> > > > > Thanks. Chris, G0VOE.
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> > > > > Yahoo! Groups Links
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> > > > > No virus found in this message.
> > > > > Checked by AVG - www.avg.com <http://www.avg.com>
> > > > > Version: 2013.0.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> > > Yahoo! Groups Links
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> > Yahoo! Groups Links
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2952. Re: [mkars80] Re: deaf receiver

Yahoo group: mkars80
Date: 2013-10-26 18:08:51 UTC
From: Steve G6ALU
Topic: 2903 Message: 2952

Hi Chris,

Your radio certainly has had a hard life but I'm glad its all working for you now! I've not had that transistor fail before so I guess it met with an accident with the former owner....

Steve

Sent from Samsung tablet

-------- Original message --------
From: christopher_iles@btinternet.com
Date: 26/10/2013 18:08 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re: deaf receiver

Q3 was dragging the audio down, replaced it and have heard UK, France, Germany, Spain and Sweden tonight. Fantastic! TX is now putting 6w into a dummy load...problems with my aerial means I can't transmit for now but I'm sure it will be good. Brilliant rig!

--- In mkars80@yahoogroups.co.uk, "christopher_iles@..." <christopher_iles@...> wrote:
>
> Changed the 1n caps for polystyrene ones, radio is very stable. However, the audio output is still very low. I have confirmed that the filters and rf amp are working fine as is the mixer (which I've rebuilt three times!). I have also changed the LM386 and made sure that all electrolytics are correctly placed and oriented.
> I can hear stations very clearly but at VERY low volume (the rf gain pot is fully up). Any ideas?
> Thanks,
> Chris.
>
> --- In mkars80@yahoogroups.co.uk, "steve@..." <steve@> wrote:
> >
> > Chris, it all tallies OK. All PCBs sold are V3, version numbers on PCB and software will be different as they develop at different times. Those are the green caps that need to be replaced, they may be OK with early software but not with version 1.2 as the Huff ans Puff works in a different way and is "quieter" in operation.
> > Steve
> >
> >
> >
> > ----- Reply message -----
> > From: "christopher_iles@" <christopher_iles@>
> > To: <mkars80@yahoogroups.co.uk>
> > Subject: [mkars80] Re: deaf receiver
> > Date: Mon, Sep 23, 2013 10:03

> >
> >
> > Hi Steve,
> >
> > Thanks for the super fast reply!
> >
> > I'm a bit confused now; the pcb has mkars80 V3 on it which suggests it's a later board but with earlier software.
> >
> > The only green capacitors on the pcb are the two 1nF capacitors near the variable tuning cap.
> >
> > These are identical to the ones in the photo on the home page. Also, there doesn't appear to be any drift and the huff and puff isn't going mad.
> >
> > Thanks for taking your time to help, it is really appreciated.
> >
> > Kind regards,
> >
> > Chris.
> > --- In mkars80@yahoogroups.co.uk, "steve@" <steve@> wrote:
> > >
> > > Chris, that's an early kit you have there. The 1nF feedback capacitors are probably green polycarbonate types which tended to cause VFO drift. Send me a private email so we can arange to get you an updated micro (probably the cause of the clicks) and some NPO caps for the VFO.
> > > Steve
> > >
> > >
> > >
> > > ----- Reply message -----
> > > From: "christopher_iles@" <christopher_iles@>
> > > To: <mkars80@yahoogroups.co.uk>
> > > Subject: [mkars80] Re: deaf receiver
> > > Date: Mon, Sep 23, 2013 07:31
> > >
> > >
> > > Hi Steve,
> > >
> > > Many thanks for the reply.
> > >
> > > On power up the display shows version 1.1 software.
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> > > I've not tested the transmitter at all yet, I wanted to get the receiver working properly first.
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> > > I went for the mixer transformers, removed them, rewound them and put them back. The solder joints look good but I will go over them again.
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> > > Also, I replaced the mixer diodes in case any were faulty. All the semiconductors and

electrolytics on the pcb are in the right way round, all other components are in the correct place too.
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> > > I did a check on the low pass filter as well in case that was the culprit but that's ok too.
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> > > When I hear stations the audio quality is good but the signals are very weak compared with my main station receiver.
> > >
> > > That's as far as I've got Steve.
> > >
> > > Kind regards,
> > >
> > > Chris. G0VOE.
> > >
> > > --- In mkars80@yahoogroups.co.uk, Steve Drury <steve@> wrote:
> > > >
> > > > Ticking noise... when you power up what software version does it show?
> > > >
> > > > Steve
> > > >
> > > > On 22/09/2013 15:16, Steve G6ALU wrote:
> > > > >
> > > > >
> > > > > Hi Chris,
> > > > >
> > > > > You've probably seen mention before that the biggest cause of deafness
> > > > > is poor connections on the mixer transformers, it takes a lot of heat
> > > > > to break down the enamel on the wire... apart from that do a voltage
> > > > > check. Does it transmit OK?
> > > > >
> > > > > Steve G6ALU
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > > Sent from Samsung tablet
> > > > >
> > > > >
> > > > >
> > > > > -------- Original message --------
> > > > > From: christopher_iles@
> > > > > Date: 22/09/2013 11:50 (GMT+00:00)
> > > > > To: mkars80@yahoogroups.co.uk
> > > > > Subject: [mkars80] deaf receiver
> > > > >
> > > > >
> > > > > Hello all,

> > > > >
> > > > > A while ago I bought a blown-up mkars80 off ebay. It had been reverse
> > > > > polarised and the fuse had been shorted out with a thick piece of wire.
> > > > >
> > > > > Many hours (and transistors) later, I have the receiver working but it
> > > > > seems quite deaf. There is also a ticking noise at roughly 1 Hertz.
> > > > >
> > > > > The radio is stable with no drift; I have rewound the mixer coils and
> > > > > replaced the diodes as a matter of course, the voltages compared with
> > > > > the voltage chart are ok and the aerial I'm using is an inverted v at
> > > > > 30 feet.
> > > > >
> > > > > Any ideas please?
> > > > >
> > > > > Thanks. Chris, G0VOE.
> > > > >
> > > > >
> > > > >
> > > > > ------------------------------------
> > > > >
> > > > > Yahoo! Groups Links
> > > > >
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> > > > >
> > > > > No virus found in this message.
> > > > > Checked by AVG - www.avg.com <http://www.avg.com>
> > > > > Version: 2013.0.3408 / Virus Database: 3222/6680 - Release Date: 09/19/13
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> > >
> > > Yahoo! Groups Links
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> > Yahoo! Groups Links
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>

Yahoo! Groups Links

2953. MKars80

Yahoo group: mkars80
Date: 2013-11-30 14:02:51 UTC
From: Graham
Topic: 793 Message: 2953

Hi all, going to fire up the MKars80 tomorrow Sun. 1st at around 10.00 to see if there is any life out there ? G3UD

2954. Re firing up MKARS80

Yahoo group: mkars80
Date: 2013-11-30 15:03:10 UTC
From: johncronhelm@nl.rogers.com
Topic: 2954 Message: 2954

You didn't mention the frequencies that you would be on
John, vo1jcc.

2955. My Kit Arrived

Yahoo group: mkars80
Date: 2013-11-30 15:30:31 UTC
From: mikey65mk
Topic: 2955 Message: 2955

I am excited about building this radio, and thankful this group exists because I will likely need advice from some of you as I go along. Although I have had experience in assembling many kits over the years, I am not a technician, yet a good solderer and I can follow instruction. The winding of the transformers will be my greatest challenge I'm thinking. Well, here I go...wish me well! 73 Mike N5LUB Texas

2956. Re: [mkars80] My Kit Arrived

Yahoo group: mkars80
Date: 2013-11-30 15:51:49 UTC
From: Steve G6ALU
Topic: 2955 Message: 2956

Mike,
One piece of advice regarding the transformers -make sure the wire is properly "tinned" before fitting to the PCB, if they aren't then the joint may look good but won't have continuity. A typical symptom would be a deaf receiver and low output transmitter.
Build it carefully and it will work, I've found that the first to finish are the last to be on the air!
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: mikey65mk <mklowrider@gmail.com>
Date: 30/11/2013 15:30 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] My Kit Arrived

I am excited about building this radio, and thankful this group exists because I will likely need advice from some of you as I go along. Although I have had experience in assembling many kits over the years, I am not a technician, yet a good solderer and I can follow instruction. The winding of the transformers will be my greatest challenge I'm thinking. Well, here I go...wish me well! 73 Mike N5LUB Texas

----

Yahoo Groups Links

2957. Re: My Kit Arrived

Yahoo group: mkars80
Date: 2013-11-30 16:00:33 UTC
From: Michael Knight
Topic: 2955 Message: 2957

Thank you for that advice Steve. I shall work carefully and slowly.
Mike

2958. re firing up

Yahoo group: mkars80
Date: 2013-11-30 17:30:37 UTC
From: Graham
Topic: 2958 Message: 2958

sorry around 3.690 qrp freq G3UD

2959. Re: Re firing up MKARS80

Yahoo group: mkars80
Date: 2013-12-01 03:22:28 UTC
From: Michael Meerman
Topic: 2954 Message: 2959

I am currently in Atlanta, Georgia USA for a few weeks and have my MKARS80 with me.
I tried to call, but so far no success. I hear plenty of stations, but it seems like all little 'private' nets.

My antenna is an improvished inv.V from the apartment window .
Is there anyone in this area who would like to try? Any evening should be ok.
Please suggest a time/frequency

Thanks and 73

Michael M0MPM

in the US: W4/PA3BHF

2960. Re: re firing up

Yahoo group: mkars80
Date: 2013-12-01 09:35:25 UTC
From: Pascal
Topic: 2958 Message: 2960

I will be on the air also, I already listen...

73/Pascal F6EHP

--- In mkars80@..., "Graham" <graham.bloor@...> wrote:
>
> sorry around 3.690 qrp freq G3UD
>

2961. re firing up

Yahoo group: mkars80
Date: 2013-12-01 10:20:48 UTC
From: Graham
Topic: 2958 Message: 2961

seems there is a regular net on 3.690 qro ! trying about 3.693 now G3UD

2962. Re: re firing up

Yahoo group: mkars80
Date: 2013-12-01 10:26:21 UTC
From: Pascal
Topic: 2958 Message: 2962

I call you...
F6EHP

--- In mkars80@..., "Graham" <graham.bloor@...> wrote:
>
> seems there is a regular net on 3.690 qro ! trying about 3.693 now G3UD
>

2963. Re: re firing up

Yahoo group: mkars80
Date: 2013-12-01 10:32:30 UTC
From: Pascal
Topic: 2958 Message: 2963

Nothing heard on 3693...now qrt after a good qso with G3LUX at 9:45 with 5W, received 56 by Brian.
73

--- In mkars80@..., "Graham" <graham.bloor@...> wrote:
>
> seems there is a regular net on 3.690 qro ! trying about 3.693 now G3UD
>

2964. Re: re firing up

Yahoo group: mkars80
Date: 2013-12-01 10:37:05 UTC
From: Graham
Topic: 2958 Message: 2964

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Nothing heard on 3693...now qrt after a good qso with G3LUX at 9:45 with 5W, received 56 by Brian.
> 73
>
> --- In mkars80@..., "Graham" <graham.bloor@> wrote:
> >
> > seems there is a regular net on 3.690 qro ! trying about 3.693 now G3UD
> >
>

Sorry Pascal nothing heard maybe better in evenings ? Graham

2965. Re: re firing up

Yahoo group: mkars80
Date: 2013-12-01 10:45:04 UTC
From: Pascal
Topic: 2958 Message: 2965

Graham, We can try again around 18 gmt and 21 gmt same frequency 3690-3695...
Pascal

--- In mkars80@..., "Graham" <graham.bloor@...> wrote:
>
>
>
> --- In mkars80@..., "Pascal" <pascal@> wrote:
> >
> > Nothing heard on 3693...now qrt after a good qso with G3LUX at 9:45 with 5W, received 56 by Brian.
> > 73
> >
> > --- In mkars80@yahoogroups.co.uk, "Graham" <graham.bloor@> wrote:
> > >
> > > seems there is a regular net on 3.690 qro ! trying about 3.693 now G3UD
> > >
> >
>
> Sorry Pascal nothing heard maybe better in evenings ? Graham
>

2966. Re: re firing up

Yahoo group: mkars80
Date: 2013-12-01 11:34:58 UTC
From: Graham
Topic: 2958 Message: 2966

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Graham, We can try again around 18 gmt and 21 gmt same frequency 3690-3695...
> Pascal
>
> --- In mkars80@..., "Graham" <graham.bloor@> wrote:
> >
> >
> >
> > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > >
> > > Nothing heard on 3693...now qrt after a good qso with G3LUX at 9:45 with 5W, received 56 by Brian.
> > > 73
> > >
> > > --- In mkars80@..., "Graham" <graham.bloor@> wrote:
> > > >
> > > > seems there is a regular net on 3.690 qro ! trying about 3.693 now G3UD
> > > >
> > >
> > Sorry Pascal nothing heard maybe better in evenings ? Graham
> >
Pascal will be listening and calling tonight Graham

2967. Internal Speaker

Yahoo group: mkars80
Date: 2013-12-01 14:04:38 UTC
From: mikey65mk
Topic: 2967 Message: 2967

I have come along nicely through bag 1 of my kit, and beginning on second bag of parts this morning. So far no mistakes that I can see, but I haven't gotten to the transformer winding yet. Not using the metric system on a daily basis, I hope that my little metric rule will help me cut the proper lengths of wire without error the first time. One question here: Is there any winding that should be modified to accomodate the US 80 meter band-plan as I will be using 3.800-4.000 MHz for sideband operation?
Am I correct in reading ahead, that a small internal speaker can be located within the enclosure I ordered along with the kit?
That's about it for now, thanks for your comments! I am having a very nice holiday here building this wonderful radio.
Mike N5LUB Texas

2968. Re: [mkars80] Internal Speaker

Yahoo group: mkars80
Date: 2013-12-01 18:13:28 UTC
From: Steve Drury
Topic: 2967 Message: 2968

Mike,

For 3.8 - 4.0 MHz, there is some adjustment available with the orange trimmer, if this isn't enough a small capacitor can be added across C47. The turns on L5 can be INCREASED but I can only guestimate what to, you could start with 2 more as its not too difficult to remove them later if too many!

Some have fitted a small loudspeaker but there are a couple of issues you should be aware of before cutting any holes - first the vibrations from the speaker can cause the VFO coil to move in sympathy, this can cause strange distortion on the incoming signal or even feedback. This can be mitigated against by fixing the coil down with a non corrosive silicon glue or similar. Second is the detuning effect the speaker magnet has on any tuned circuit.

My advice is to get it working first then before drilling holes for the speaker fit it into a dummy lid (cardboard) and check for unwanted results.

Regards,
Steve G6ALU

On 12/1/2013 2:04 PM, mikey65mk wrote:
> I have come along nicely through bag 1 of my kit, and beginning on second bag of parts this morning. So far no mistakes that I can see, but I haven't gotten to the transformer winding yet. Not using the metric system on a daily basis, I hope that my little metric rule will help me cut the proper lengths of wire without error the first time. One question here: Is there any winding that should be modified to accomodate the US 80 meter band-plan as I will be using 3.800-4.000 MHz for sideband operation?
> Am I correct in reading ahead, that a small internal speaker can be located within the enclosure I ordered along with the kit?
> That's about it for now, thanks for your comments! I am having a very nice holiday here building this wonderful radio.
> Mike N5LUB Texas
>
>
>
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>
> Yahoo Groups Links
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> -----

> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2014.0.4259 / Virus Database: 3629/6882 - Release Date: 12/01/13
>
>

2969. Re: re firing up

Yahoo group: mkars80
Date: 2013-12-01 21:17:33 UTC
From: Pascal
Topic: 2958 Message: 2969

Thanks Graham for the qrp to qrp qso this evening.
Indeed the qrm, you were 53 in brittany with a good modulation
I was using a small processor at mic input.
Enjoy the MKRS80 ! see you soon

73/Pascal

--- In mkars80@yahoogroups.co.uk, "Graham" <graham.bloor@...> wrote:
>
>
>
> --- In mkars80@yahoogroups.co.uk, "Pascal" <pascal@> wrote:
> >
> > Graham, We can try again around 18 gmt and 21 gmt same frequency 3690-3695...
> > Pascal
> >
> > --- In mkars80@..., "Graham" <graham.bloor@> wrote:
> > >
> > >
> > >
> > > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > > >
> > > > Nothing heard on 3693...now qrt after a good qso with G3LUX at 9:45 with 5W,
received 56 by Brian.
> > > > 73
> > > >
> > > > --- In mkars80@..., "Graham" <graham.bloor@> wrote:
> > > > >
> > > > > seems there is a regular net on 3.690 qro ! trying about 3.693 now G3UD
> > > > >
> > > >
> > > >
> > > > Sorry Pascal nothing heard maybe better in evenings ? Graham
> > >
> > Pascal will be listening and calling tonight Graham
>

2970. Re: re firing up

Yahoo group: mkars80
Date: 2013-12-02 10:34:20 UTC
From: Graham
Topic: 2958 Message: 2970

--- In mkars80@..., "Pascal" <pascal@...> wrote:
>
> Thanks Graham for the qrp to qrp qso this evening.
> Indeed the qrm, you were 53 in brittany with a good modulation
> I was using a small processor at mic input.
> Enjoy the MKRS80 ! see you soon
>
> 73/Pascal
>
> --- In mkars80@..., "Graham" <graham.bloor@> wrote:
> >
> >
> >
> > --- In mkars80@..., "Pascal" <pascal@> wrote:
> > >
> > > Graham, We can try again around 18 gmt and 21 gmt same frequency 3690-3695...
> > > Pascal
> > >
> > > --- In mkars80@..., "Graham" <graham.bloor@> wrote:
> > > >
> > > >
> > > >
> > > > --- In mkars80@yahoogroups.co.uk, "Pascal" <pascal@> wrote:
> > > > >
> > > > > Nothing heard on 3693...now qrt after a good qso with G3LUX at 9:45 with 5W, received 56 by Brian.
> > > > > 73
> > > > >
> > > > > --- In mkars80@..., "Graham" <graham.bloor@> wrote:
> > > > > >
> > > > > > seems there is a regular net on 3.690 qro ! trying about 3.693 now G3UD
> > > > > >
> > > > >
> > > > > Sorry Pascal nothing heard maybe better in evenings ? Graham
> > > > >
> > > > Pascal will be listening and calling tonight Graham
> > >
>
Thanks Pascal, excellent signal from you super audio 57 in the clear. Look forward to next one. 72/3 Graham

2971. Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-05 05:08:31 UTC
From: petro.1968
Topic: 2971 Message: 2971

Hello everybody!

I ordered two kits of the famous MKARS-80.

#1
The problem I had with the first one was strange.
It start up from the first time, but after awhile start cracking(noise). And then completely fade away as a receiver.
I studied the circuits, re-solder some points... nothing. It was receiving, but very weak output. I came up to the idea that the Operating Amplifier (or about) was wrong.
One day my brother came up and tried to help me and began drawing a tooth pick on PCB for cleaning. And After awhile it came alive. Loud and clear.
But it still switch on silence mode after 1/2 to an hour.
And cant lock on a frequency. Running up and down almost 1kHz. May be because I remove C33 to use it on #2.

#2
All went well. I was more clean in soldering. Start up immediately but it was a little up - 3.757-4.115. Thanks to Steve that remind me about the orange capacitor. I put it in the band but it doesn't cover all the band. 3.522-3.884 Couldn't make it better.
Adjusted the transmitter and seems like working. I have digital cheap multimeter only. For a dummy I used 110V/25W light bulb. Comes very close to 50 Ohm.

But I had some nervs about transmitting. First, I forgot about R2. And second, my microphone was not working. No "luck" on both units about transmitting. And my suspicious was every where but on the mike. Finally I decided to try another one that I pull out from an old cheap computer headset. And I got the transmission working! I suspect the other mike may be is small buzzer, I picked it up from a box with parts.

Today I put #2 in the box! And still working!
Now will try to install a small speaker in it.

If someone have an idea how to widen a little the band I would appreciate.

My best regards to all of you!
And special thanks to Steve to come up with such a nice product!

Peter, Vancouver/Canada

2972. Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-06 06:06:26 UTC
From: petro.1968
Topic: 2971 Message: 2972

I just re-red the specifications of the Mkars80.
It reads: "Operating Frequency 3.5 - 3.8 MHz"

So nothing wrong.

Any idea about small portable antenna for this beast?
I am thinking about http://nmwilliam.tripod.com/mla.html
Is anithing smaller?

2973. Re: [mkars80] Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-06 11:47:13 UTC
From: Ken Greenough
Topic: 2971 Message: 2973

Hello Petro,
You can increase the tuning range to cover 3.5 to 4 MHz
by setting the trimmer on the back of the tuning cap to
minimum value [fully out of mesh] and reducing the value of
C38. As you increase the frequency sweep of the tuning cap
you will move it out of band, ie you may get for example 3.3 to
3.9MHz or whatever, you then need to adjust the turns on L5.
As the VFO goes lower in frequency your operating frequency
increases so reducing the cap values you go LF, you need to
add a turn or two to L5 to bring it back HF.
73 Ken g8beq

2974. tuning range

Yahoo group: mkars80
Date: 2013-12-06 21:35:19 UTC
From: charles
Topic: 2974 Message: 2974

Mine is about 3.540mhz to 4.010mhz ....sadly, I only use mine to listen because of antenna limitations. 73 de chas ai4ot

2975. Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-07 06:05:48 UTC
From: petro.1968
Topic: 2971 Message: 2975

Thanks a lot Ken! I may play about it.

Now I encounter something else. After about 30 min on Rx, I hear kind of thunder for a few seconds (I use my home stereo) and then: 1.receiver go silent; 2.Q1 go hot. 3. Voltage on the display fall significantly. It falls from 12.3V to 6.+V. I use (I gess) an old mobile charger which gives 12V impulse voltage and current 1A.

I wander why.
I noticed that on fully anticlockwise R2, the current goes from 0.11A Rx to 0.24A Tx. Which is 130mA more. Instead of 50mA more.

Any idea is welcome!

2976. Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-07 07:25:52 UTC
From: petro.1968
Topic: 2971 Message: 2976

Update. I mess it up.

The previously described problem was on adjusting R2 by the manual (current on Tx +50mA). It was 0.24A (Tx; silence) so I turn R2 to 0.31A.

Now, over 1 hour it is receiving normal. On R2 fully antyclockwise! And LED extinguish ocasionely when speaking on the mike. Which seems normal. ??? scratch on head...

2977. Re: [mkars80] Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-07 16:31:16 UTC
From: Michael Meerman
Topic: 2971 Message: 2977

Yes, that is normal, the led flickers when you talk into it, and should come back on when silent.
It is a good indication that there is no rf feedback, a problem
I've had a few times especially with a bad SWR.

GL!

73

Michael
M0MPM

Sent from my iPhone

> On 7 Dec 2013, at 02:25, "petro.1968" <petro.1968@...> wrote:
>
>
> Update. I mess it up.
>
> The previously described problem was on adjusting R2 by the manual (current on Tx +50mA). It was 0.24A (Tx; silence) so I turn R2 to 0.31A.
>
> Now, over 1 hour it is receiving normal. On R2 fully antyclockwise! And LED extinguish ocasionely when speaking on the mike. Which seems normal. ??? scratch on head...
>
>

2978. Re: [mkars80] Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-07 17:17:42 UTC
From: Ken Greenough
Topic: 2971 Message: 2978

Hello Petro,
I am a little confused by your description, you say you're
on Rx when the audio goes silent and Q1 gets hot.
Q1 only has supply volts on transmit so if it gets hot on receive
it looks like either your PTT line has an intermittant short to
ground and the set is going into transmit or you have an
unintended bridge between tracks putting supply volts onto Q1
when receiving. R2 sets the bias voltage for Q1, it should have
no effect at all when receiving. If you mean these things happen when
you transmit you must remember that Q1 needs a heatsink which can
be the metal case. If no heatsink it will get very hot and could be
destroyed although FETs usually reduce current as they get hot.
If Q1 gets hot on transmit with R2 fully anticlockwise you may have a bad
connections at the ground end of R2. When fully anticlockwise there should
be no bias on the gate of Q1 and it should not conduct, if you transmit
like this the SSB will be very distorted.
Hope that this helps,
73 Ken g8beq

2979. Re: [mkars80] Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-07 17:50:52 UTC
From: Ken Greenough
Topic: 2971 Message: 2979

Hello again Peter [I've been calling you Petro as per the
"from" header, but see you signed as Peter hi].
I see from your first mail that you're using a 110 volt 25 watt
bulb as a dummy load, you say near enough 50 ohms but I
doubt that very much. When hot that bulb will be 27 ohms
and when cold [as it will be even with 5 watts of RF] it will
be much lower resistance, the impedance is anyones guess
depending on whether the filament is coiled etc. It's worth
getting a 50 ohm 5 watt non inductive resistor if possible.
73 Ken g8beq

2980. Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-07 23:07:48 UTC
From: petro.1968
Topic: 2971 Message: 2980

Hi Ken, thanks for comming by!

I checked the bulb more carefuly. It is 51-52 Ohms cold. And after observing with magnifying lens... yes, it is very fine coiled.
So on Tx+50mA on the bulb it is 0.31A. And it is the same on long wire.

It is strange, because after my previous post I was running the radio (Rx) for hours. On R2 fully anticlockwise. AND then adjustet by the manual. AND out of the box.

On Tx I either keep a finger on Q1 or with a hearsink.
I didn't cut the legs of Q1 so they ate poping about 5-6mm (1/4") over the PCB and maybe possible to touch the boxing. But why after long 30min?

I am going to cut the poping legs of Q1 and put the radio back in the box. And see what hapen.

2981. Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-07 23:56:25 UTC
From: petro.1968
Topic: 2971 Message: 2981

I just noticed while putting it in the box, the legs of Q1 could not touch the box.

It is in the box now, on Rx.

It receives much much better when connected to my home stereo, than to speaker alone. I gess because of the ground that the stereo provide.

2982. Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-08 01:50:12 UTC
From: petro.1968
Topic: 2971 Message: 2982

--- In mkars80@..., "petro.1968" <petro.1968@...> wrote:
>
> I just noticed while putting it in the box, the legs of Q1 could not touch the box.
>
> It is in the box now, on Rx.
>
> It receives much much better when connected to my home stereo, than to speaker alone. I gess because of the ground that the stereo provide.
>
I am so happy. My radio stil working (R).
And I try my new small loop. Until now I was using a long (6-7m) wire. Now with the loop the radio is receiving on speaker alone. Seems it is related to balanced and unbalansed antena type. I am discovering the weel.
With the loop it is more quiter, but more clear.
I just iprovised with this loop. The loop is from thick wire (not pipe). And I use two sheets of aluminum foil and this foamy packing sheet between them. And "tunning" is sliding a light magazin on top pressing the foil closer. Works.

2983. Re: [mkars80] Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-08 10:13:32 UTC
From: Ken Greenough
Topic: 2971 Message: 2983

Hello Peter,
That's real amateur radio.. I did similar with two sheets of
PCB.
73 Ken g8beq

2984. Re: [mkars80] Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2013-12-08 11:02:01 UTC
From: Steve Drury
Topic: 2971 Message: 2984

Hi,
Some comments from me!

The PA stage of the MKARS80 is normally very stable, instances where instability have been noted are:

* TR1 tab has been screwed to a large piece of non-grounded metal as a heat sink - this is not good as even if an insulating washer is used TR1 drain will capacitively couple into the heat sink which in turn can couple back into the amplifier or previous stages leading to oscillation.
* Very poor antenna (or load) VSWR - I've run the radio into a high VSWR (perhaps > 6:1) without problem but would normally recommend keeping it below 3:1 if only to get a reasonable power transfer to the antenna!
* Badly screened microphone lead - TX RF gets into the microphone amplifier and is rectified and "seen" as audio causing an audio frequency feedback.
* High impedance power source - make sure your power supply can source enough current - the radio typically draws about 1.2A or more on peaks so use a power supply capable of this. In addition its possible RF can get back into the power supply and cause the output to fluctuate which will give the impression of RF instability and will be audible on your transmitted signal.

Any combination of the above could cause feedback - for example high VSWR and a poor quality microphone lead.

Bias for the output stage is removed during receive so if the build quality is reasonable - and no components have failed - then TX power should cease when going to receive and TR1 can't get hot in receive.

I'm concerned that at some point R2 has been turned fully clockwise whilst in transmit mode - this would normally result in a burned out IRF510 which can then get hot during receive, they typically get a drain to source "leak" when dead. A transistor failed in this way often causes R2 to fail passing volts back down the TX rail whilst in receive and in turn causes the mute transistor Q3 to turn on and reduce or kill received audio.

Check to see if R2 reads sensible between its junction with R1 and ground.

Hope this helps.

Steve G6ALU

On 12/7/2013 11:07 PM, petro.1968 wrote:
>
> Hi Ken, thanks for comming by!
>
> I checked the bulb more carefuly. It is 51-52 Ohms cold. And after observing with magnifying lens... yes, it is very fine coiled.
> So on Tx+50mA on the bulb it is 0.31A. And it is the same on long wire.
>
> It is strange, because after my previous post I was running the radio (Rx) for hours. On R2 fully anticlockwise. AND then adjustet by the manual. AND out of the box.
>
> On Tx I either keep a finger on Q1 or with a hearsink.
> I didn't cut the legs of Q1 so they ate poping about 5-6mm (1/4") over the PCB and maybe possible to touch the boxing. But why after long 30min?
>
> I am going to cut the poping legs of Q1 and put the radio back in the box. And see what hapen.
>
>
>
> ------------------------------------
>
> Yahoo Groups Links
>
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2014.0.4259 / Virus Database: 3658/6899 - Release Date: 12/07/13
>
>

2985. No Display

Yahoo group: mkars80
Date: 2013-12-19 16:39:12 UTC
From: raojones@talk21.com
Topic: 2985 Message: 2985

Have just completed the kit without problems. Initial testing went according to the manual. On connecting IC2 and the display there was no response, screen is blank. have checked the wiring and spot checks for various voltages are in order. At present I am resoldering all the connections. Wondered if any one else had this problem ?

Aled G0UCI

2986. Re: [mkars80] No Display

Yahoo group: mkars80
Date: 2013-12-19 17:24:19 UTC
From: Steve Drury
Topic: 2985 Message: 2986

Aled,

First make sure the wires you soldered into the display are fully
engaging with the socket. Next measure each display connection back to
the micro for continuity and between ajacent pins which shouldn't have
continuity.
If that doesn't find your problem come back.

Steve G6ALU

On 12/19/2013 4:39 PM, raojones@... wrote:
> Have just completed the kit without problems. Initial testing went according to the manual.
> On connecting IC2 and the display there was no response, screen is blank. have checked the wiring and spot checks for various voltages are in order. At present I am resoldering all the connections. Wondered if any one else had this problem ?
>
> Aled G0UCI
>
>
>
> ------------------------------------
>
> Yahoo Groups Links
>
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2014.0.4259 / Virus Database: 3658/6932 - Release Date: 12/18/13
>
>

2987. Re: [mkars80] No Display

Yahoo group: mkars80
Date: 2013-12-19 20:05:17 UTC
From: Richard Aled Jones
Topic: 2985 Message: 2987

Steve,

Thanks for a very prompt reply. On examining the display connections very closely , I discovered I had used a thiner wire on two of the pins. They seemed to be making contact so I replaced them with thicker wire and this worked. Display now visible, on to the next stages of testing.

Aled G0UCI

On 19 Dec 2013, at 17:24, Steve Drury <steve@...> wrote:

> Aled,
>
> First make sure the wires you soldered into the display are fully
> engaging with the socket. Next measure each display connection back to
> the micro for continuity and between ajacent pins which shouldn't have
> continuity.
> If that doesn't find your problem come back.
>
> Steve G6ALU
>
> On 12/19/2013 4:39 PM, raojones@... wrote:
> > Have just completed the kit without problems. Initial testing went according to the manual.
> > On connecting IC2 and the display there was no response, screen is blank. have checked the wiring and spot checks for various voltages are in order. At present I am resoldering all the connections. Wondered if any one else had this problem ?
> >
> > Aled G0UCI
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo Groups Links
> >
> >
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 2014.0.4259 / Virus Database: 3658/6932 - Release Date: 12/18/13
> >
> >

>
>
>

2988. Season Greetings

Yahoo group: mkars80
Date: 2013-12-24 07:56:20 UTC
From: Panagiotis Perreas
Topic: 2320 Message: 2988

Hi all!
I wish you a Merry Christmas and a Happy, Healthy and Prosperous NEW YEAR(radiowise and otherwise!)!!!
73

Panos - SV3AUW/ M0LPT

2989. Loud noise

Yahoo group: mkars80
Date: 2014-01-04 16:30:36 UTC
From: <mats.su@...>
Topic: 2989 Message: 2989

Hi
Just finished my kit, turn it on and all I get is a loud noise. Controls has no effect on noise. All voltages is ok. I would be happy if someone has any ideas where to start faultfinding.
73/de Mats sa5bxt

2990. Re: [mkars80] Loud noise

Yahoo group: mkars80
Date: 2014-01-04 17:12:58 UTC
From: Steve Drury
Topic: 2989 Message: 2990

Mats,
Can you describe the loud noise... is it "white" noise or an oscillation?
Steve G6ALU

On 1/4/2014 4:30 PM, mats.su@... wrote:
>
>
> Hi
>
> Just finished my kit, turn it on and all I get is a loud noise.
> Controls has no effect on noise. All voltages is ok. I would be happy
> if someone has any ideas where to start faultfinding.
>
> 73/de Mats sa5bxt
>
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2014.0.4259 / Virus Database: 3658/6974 - Release Date: 01/03/14
>

2991. Re: [mkars80] Loud noise

Yahoo group: mkars80
Date: 2014-01-05 10:05:27 UTC
From: <mats.su@...>
Topic: 2989 Message: 2991

Hi
It´s "White" noise I Think. There is also a "ticking" sound when "huff and puff" works. I have not checked voltages in transmitt mode
73/Mats

2992. Re: [mkars80] Loud noise

Yahoo group: mkars80
Date: 2014-01-05 10:28:13 UTC
From: Steve Drury
Topic: 2989 Message: 2992

Mats,
I've not had this before, I can't think of a single error / fault that
would causes this - is this noise with an antenna connected?

The first thing to do is check for poor solder joints and blobs of
solder, to aid this I have placed 2 plots of tracks in the files section
of this group, look in MKARS80 Fault Finding folder, the link from my
end is
http://uk.groups.yahoo.com/neo/groups/mkars80/files/MKARS80%20Fault%20finding/

Steve G6ALU

On 1/5/2014 10:05 AM, mats.su@... wrote:
>
>
> Hi
>
> It´s "White" noise I Think. There is also a "ticking" sound when "huff
> and puff" works. I have not checked voltages in transmitt mode
>
> 73/Mats
>
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2014.0.4259 / Virus Database: 3658/6976 - Release Date: 01/04/14
>

2993. Re: [mkars80] Loud noise

Yahoo group: mkars80
Date: 2014-01-05 16:42:34 UTC
From: <mats.su@...>
Topic: 2989 Message: 2993

Steve
It does not matter if antenna is connected or not, the noise is still there.
I will do a check of soldering to see if it is any fault there.
73
mats

2994. Re: Loud noise

Yahoo group: mkars80
Date: 2014-01-06 16:06:28 UTC
From: johncronhelm@nl.rogers.com
Topic: 2989 Message: 2994

Mats,If you are connected to a power supply rather than a battery,it may be power supply noise.
John, Vo1jcc.

--- In mkars80@..., <mats.su@...> wrote:
>
> Steve
> It does not matter if antenna is connected or not, the noise is still there.
> I will do a check of soldering to see if it is any fault there.
> 73
> mats
>

2995. Re: Loud noise

Yahoo group: mkars80
Date: 2014-01-10 16:48:51 UTC
From: <mats.su@...>
Topic: 2989 Message: 2995

Hi
Now I have a rf signal from antenna to speaker! problem was bad solder round T6.
I still have loud noise and a hum sounds like 50Hz. I will get a new Power supply to see what happens.
73 Mats sa5bxt

2996. Voltage issues

Yahoo group: mkars80
Date: 2014-01-22 17:48:25 UTC
From: daphne_g7ena
Topic: 2996 Message: 2996

Hi everyone,

I have just completed my MKARS80 but on checking the voltages I am seeing 7.27V on R34 and 4.29V on VR2. I connected an aerial and can hear stations.

Any help appreciated

73
Daphne G7ENA

2997. Re: [mkars80] Voltage issues

Yahoo group: mkars80
Date: 2014-01-22 20:05:35 UTC
From: Steve G6ALU
Topic: 2996 Message: 2997

Hi Daphne,
Is the negative lead of your meter clipped on to ground? If it is check that the two regulators are fitted in the correct places.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: daphne_g7ena <daphne.neal@totalise.co.uk>
Date: 22/01/2014 17:48 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Voltage issues

Hi everyone,

I have just completed my MKARS80 but on checking the voltages I am seeing 7.27V on R34 and 4.29V on VR2. I connected an aerial and can hear stations.

Any help appreciated

73
Daphne G7ENA

Yahoo Groups Links

2998. Re: [mkars80] Voltage issues

Yahoo group: mkars80
Date: 2014-01-22 20:55:34 UTC
From: Daphne Neal
Topic: 2996 Message: 2998

Hi Steve,

Thank you for the prompt reply, after connecting to the correct ground (oopps silly me) voltages are within spec.

73

Daphne G7ENA

2999. Re: [mkars80] Voltage issues

Yahoo group: mkars80
Date: 2014-01-22 21:15:59 UTC
From: Steve G6ALU
Topic: 2996 Message: 2999

It all sounds good if you can hear stations, let me know how you get on.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: Daphne Neal <daphne.neal@totalise.co.uk>
Date: 22/01/2014 20:55 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: Re: [mkars80] Voltage issues

Hi Steve,
Thank you for the prompt reply, after connecting to the correct ground (oopps silly me) voltages are within spec.

73
Daphne G7ENA

3000. MKARS-80 for PSK-31?

Yahoo group: mkars80
Date: 2014-01-23 22:11:47 UTC
From: zaktherabbit
Topic: 3000 Message: 3000

Hi All,

Has anyone tried using their MKARS for PSK?

Im just starting out with PSK-31, currently running 5w from my ALinco DX-70TH, but am curious as to whether the MKARS would be effective?

Martin G7MRV

3001. Re: [mkars80] MKARS-80 for PSK-31?

Yahoo group: mkars80
Date: 2014-01-23 22:34:27 UTC
From: John
Topic: 3000 Message: 3001

Hi Martin

I've not tried it but I seem to remember that there was a feeling that
the heat produced using the fairly high duty cycle may be a problem.
I'm sure Steve will be able to answer the question.

Regards,
John.

On 23/01/2014 22:11, zaktherabbit wrote:
>
> Hi All,
>
> Has anyone tried using their MKARS for PSK?
>
> Im just starting out with PSK-31, currently running 5w from my ALinco
> DX-70TH, but am curious as to whether the MKARS would be effective?
>
> Martin G7MRV
>
>

3002. Re: [mkars80] MKARS-80 for PSK-31?

Yahoo group: mkars80
Date: 2014-01-24 06:10:00 UTC
From: steve@radio-kits.co.uk
Topic: 3002 Message: 3002
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3003. Re: [mkars80] MKARS-80 for PSK-31?

Yahoo group: mkars80
Date: 2014-01-24 07:37:34 UTC
From: steve@radio-kits.co.uk
Topic: 3002 Message: 3003
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3004. RE: [mkars80] MKARS-80 for PSK-31?

Yahoo group: mkars80
Date: 2014-01-24 10:38:53 UTC
From: David White
Topic: 3000 Message: 3004

hello steve phil hayes uses his MKARS 80 on PSK31 all the time and has no problems at all
de G3ZPA

NNNN

To: mkars80@...
From: steve@...
Date: Fri, 24 Jan 2014 07:37:34 +0000
Subject: Re: [mkars80] MKARS-80 for PSK-31?

Just to elaborate a little - with the added heat due to the high transmit duty cycle the PCB warms up and may make the VFO drift beyond the Huff and Puff capture range, monitor this by watching the bar graph on bottom line of display. If you are unsure do a trial run into a dummy load with an imaginary QSO!
Be careful not to overdrive the TX, don't drive it so the TX LED is extinguished...perhaps just flickering.
Steve G6ALU

----- Reply message -----
From: "steve@..." <steve@...>
To: <mkars80@yahoogroups.co.uk>
Subject: [mkars80] MKARS-80 for PSK-31?
Date: Fri, Jan 24, 2014 06:10

It works....my first QSO with the MKARS80 was on PSK31....watch the drift in tuning though.
Steve G6ALU

----- Reply message -----
From: "John" <john@...>
To: <mkars80@...>
Subject: [mkars80] MKARS-80 for PSK-31?
Date: Thu, Jan 23, 2014 22:34

Hi Martin

I've not tried it but I seem to remember that there was a feeling that the heat produced using the fairly high duty cycle may be a problem.
I'm sure Steve will be able to answer the question.

Regards,
John.

On 23/01/2014 22:11, zaktherabbit wrote:

Hi All,

Has anyone tried using their MKARS for PSK?

Im just starting out with PSK-31, currently running 5w from my ALinco DX-70TH, but am curious as to whether the MKARS would be effective?

Martin G7MRV

3005. RE: [mkars80] MKARS-80 for PSK-31?

Yahoo group: mkars80
Date: 2014-01-24 20:36:02 UTC
From: Phil
Topic: 3000 Message: 3005

Hi,

I have run PSK on my MCARS80 and I had the same problem of drift.

All I did was to install a small 12V fan from an old PC motherboard inside the case and drilled a few small hols in the case to allow for the fans air flow.

After fitting the fan, it doesn't drift

Phil

From: mkars80@... [mailto:mkars80@...] On Behalf Of David White
Sent: 24 January 2014 10:39
To: mkars80@...
Subject: RE: [mkars80] MKARS-80 for PSK-31?

hello steve phil hayes uses his MKARS 80 on PSK31 all the time and has no problems at all de G3ZPA

NNNN

To: mkars80@...
From: steve@...
Date: Fri, 24 Jan 2014 07:37:34 +0000
Subject: Re: [mkars80] MKARS-80 for PSK-31?

Just to elaborate a little - with the added heat due to the high transmit duty cycle the PCB warms up and may make the VFO drift beyond the Huff and Puff capture range, monitor this by watching the bar graph on bottom line of display. If you are unsure do a trial run into a dummy load with an imaginary QSO!
Be careful not to overdrive the TX, don't drive it so the TX LED is extinguished...perhaps just flickering.
Steve G6ALU

----- Reply message -----
From: "steve@..." <steve@...>
To: <mkars80@...>
Subject: [mkars80] MKARS-80 for PSK-31?
Date: Fri, Jan 24, 2014 06:10

It works....my first QSO with the MKARS80 was on PSK31....watch the drift in tuning though.
Steve G6ALU

----- Reply message -----
From: "John" <john@...>
To: <mkars80@...>
Subject: [mkars80] MKARS-80 for PSK-31?
Date: Thu, Jan 23, 2014 22:34

Hi Martin

I've not tried it but I seem to remember that there was a feeling that the heat produced using the fairly high duty cycle may be a problem.
I'm sure Steve will be able to answer the question.

Regards,
John.

On 23/01/2014 22:11, zaktherabbit wrote:

Hi All,

Has anyone tried using their MKARS for PSK?

Im just starting out with PSK-31, currently running 5w from my ALinco DX-70TH, but am curious as to whether the MKARS would be effective?

Martin G7MRV

3006. Re: MKARS-80 for PSK-31?

Yahoo group: mkars80
Date: 2014-01-25 02:55:58 UTC
From: zaktherabbit
Topic: 3000 Message: 3006

Thanks for all the replies,

SO the general concensus is to watch for heat induced drift, making cooling modifications if required. No problem. I can fit a larger heatsink to the outside of the case,and adding a small fan is easily done. And of course to keep to short overs!

What im trying to achieve is a simple demo of amateur radio for interested youth groups, something that shows that the hobby really can be low cost but effective with low power, home made equipment,

Cheers

Martin

--- In mkars80@..., "Phil" <phil.colossus@...> wrote:
>
> Hi,
>
> I have run PSK on my MCARS80 and I had the same problem of drift.
>
> All I did was to install a small 12V fan from an old PC motherboard inside
> the case and drilled a few small hols in the case to allow for the fans air
> flow.
>
> After fitting the fan, it doesn't drift
>
> Phil
>
> _____
>
> From: mkars80@yahoogroups.co.uk [mailto:mkars80@...] On Behalf
> Of David White
> Sent: 24 January 2014 10:39
> To: mkars80@...
> Subject: RE: [mkars80] MKARS-80 for PSK-31?
>
>
>
>
>
>
> hello steve phil hayes uses his MKARS 80 on PSK31 all the time and has
> no problems at all de G3ZPA
>
>
>
> NNNN

>
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>
>
>
> _____
>
> To: mkars80@...
> From: steve@...
> Date: Fri, 24 Jan 2014 07:37:34 +0000
> Subject: Re: [mkars80] MKARS-80 for PSK-31?
>
>
> Just to elaborate a little - with the added heat due to the high transmit
> duty cycle the PCB warms up and may make the VFO drift beyond the Huff and
> Puff capture range, monitor this by watching the bar graph on bottom line of
> display. If you are unsure do a trial run into a dummy load with an
> imaginary QSO!
> Be careful not to overdrive the TX, don't drive it so the TX LED is
> extinguished...perhaps just flickering.
> Steve G6ALU
>
>
>
>
> ----- Reply message -----
> From: "steve@..." <steve@...>
> To: <mkars80@yahoogroups.co.uk>
> Subject: [mkars80] MKARS-80 for PSK-31?
> Date: Fri, Jan 24, 2014 06:10
>
>
>
> It works....my first QSO with the MKARS80 was on PSK31....watch the drift in
> tuning though.
> Steve G6ALU
>
>
>
>
> ----- Reply message -----
> From: "John" <john@...>
> To: <mkars80@yahoogroups.co.uk>
> Subject: [mkars80] MKARS-80 for PSK-31?
> Date: Thu, Jan 23, 2014 22:34
>
>
>
> Hi Martin

>
> I've not tried it but I seem to remember that there was a feeling that the
> heat produced using the fairly high duty cycle may be a problem.
> I'm sure Steve will be able to answer the question.
>
> Regards,
> John.
>
> On 23/01/2014 22:11, zaktherabbit wrote:
>
>
>
> Hi All,
>
> Has anyone tried using their MKARS for PSK?
>
> Im just starting out with PSK-31, currently running 5w from my ALinco
> DX-70TH, but am curious as to whether the MKARS would be effective?
>
> Martin G7MRV
>

3007. RE: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2014-01-31 11:15:08 UTC
From: <petro.1968@...>
Topic: 2971 Message: 3007

Remarcable receiver! Thanks Steve!
So, my kit#1 is complete in the box.
I had the oportunity to check the radio on a profesional equipment. Sensitivity: -122dBi (or dBm...not sure); MDS: 0.1uV. The guy was impressed.

Lots of nights I was listening the local networks and even checked-in ones. With a help of a very local radio.
My first trys with the small loop was on the edge of tunning. I put some extra capacitance and it got very loud when tuned.
This evening I went 10-15km out of Vancouver (Canada) and stopped at about 400m above see level (and the city). The loop next to the car with about 5m coax. The radio was much quiter! Almost no noise when tuned. And a lot of stations all over the band. And this time I was listening both stations. With some exeptions. I heard Texas on 1kWt (if I recall). I tryed to call few times and one of the stations heard me but not enough for QSO. I think because the antenna wasn't in tune. Next time I will try with some random wire.
I noticed that when transmit I can hear my voice on the speaker. I plug in bigger 10W/8ohm speaker from a TV. Yes, it was not laud, but easily noticeble. I wander if the internal speaker can help for this.
I inserted a small 3.5cm speaker.
No issues with fading, cracking and silencing after 1/2 hour.
The kit#2. Was checked by the guy too. Receiver is the same sensitivity, but no transmition. Will pay more atention later.

And yes, I get my license on Jan 14, 2014 - 73 de VE7BUL

3008. RE: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2014-01-31 11:24:38 UTC
From: <petro.1968@...>
Topic: 2971 Message: 3008

* I was listening both stations = I was able to hear both stations
** I plug in bigger 10W/8ohm speaker from a TV = I was using it all the time.

3009. RE: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2014-02-02 20:29:44 UTC
From: <petro.1968@...>
Topic: 2971 Message: 3009

Last evening, I tryed to tune #1 R59&C103 - mixer balance, by hearing with #2 radio, Both radios near me and about 0.5m apart. I was transmitting on the small loop at the other corner of the room. Receiving radio had about 0.2m tin wire for antenna. And not in box.

It was interesting that I had to tune the receiver about 300Hz down the Tx frequency. And I had almost perfect audio. Like FM quality. And I hear a continues tone (I think, not sure about direction) above the perfect Rx which is 300Hz down.
Is that tone the carrier?
Do I have to look for zero carrier Tx or it is fine just to minimise it?

Regards, Peter.

3010. RE: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2014-02-02 20:36:45 UTC
From: <petro.1968@...>
Topic: 2971 Message: 3010

I can't edit my mesages :(
" which is 300Hz down." forget about this, it is confusing.

3011. Re: [mkars80] RE: Another radio is complete. Alm ost.

Yahoo group: mkars80
Date: 2014-02-02 21:07:06 UTC
From: steve@radio-kits.co.uk
Topic: 3011 Message: 3011
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3012. Attached microphone and integrated PTT

Yahoo group: mkars80
Date: 2014-03-01 07:43:31 UTC
From: <petro.1968@...>
Topic: 3012 Message: 3012

Hi, today I realize my idea. I bought second hand commercial Panasonic headphones with mike that can turn up (to the head) and down. So I cut the rotating part and fix it in front of the box (the oposite of the cables side). So it can turn next to the radio (compact) or turn up for speaking. And install PTT buton on the bottom left corner of the face (up) side. And still can plug external mike and work with it.

So now it has a small internal speaker and compact attached mike. And integrated PTT button. And the all it needs to work now is antenna and power.

Theese days I made a dipol antenna and deploy it .. on the grass. And made contact about 200km. In the mud, but contact.

I was tinking about varicap mode. It is good enough as it is now.
Thanks Steve!

73 de VA7BUL

3013. RE: Attached microphone and integrated PTT

Yahoo group: mkars80
Date: 2014-03-01 10:39:39 UTC
From: <petro.1968@...>
Topic: 3012 Message: 3013

Just checked the other unit (#2). Current on
Rx - 0.11A

Now Tx. When adjust it as in the manual, the modulation LED goes on for a blink time and goes off again. In silence. When I turn the pot backwards, to have the modulation, the current goes to 0.23A and barely goes to 0.25 if blow on the mike.

I have no experience with field transistors. Any ideas? Rx is Ok. And it is working almost two hours as it should.

3014. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-02 11:32:39 UTC
From: steve@radio-kits.co.uk
Topic: 3014 Message: 3014
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3015. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-03 01:04:20 UTC
From: <petro.1968@...>
Topic: 3015 Message: 3015

Thank for the reply Steve! I use the same computer power suply on both units. It can deliver 12V at 21A. I think it is OK. The MKARS80 displays 12.1V and does not change. The power cord is thick enough too.

And to add that in fully anticlockwise pot., on silent transmision, the current is the same 0,23A

Thanks,
Peter.

3016. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-03 06:14:42 UTC
From: steve@...
Topic: 3015 Message: 3016

OK, 0.23A is probably normal for 12V. The preset should be slowly turned clockwise until a current of 0.23 + 0.05 = 0.28A is obtained whilst on "silent" transmit.

Steve

On 2014-03-03 01:04, petro.1968@... wrote:
> Thank for the reply Steve! I use the same computer power suply on
> both units. It can deliver 12V at 21A. I think it is OK. The MKARS80
> displays 12.1V and does not change. The power cord is thick enough
> too.
>
> And to add that in fully anticlockwise pot., on silent transmision,
> the current is the same 0,23A
>
> Thanks,
> Peter.
>
>
>
> Visit Your Group [1]
>
> * New Members [2] 1
> * New Photos [3] 2
>
>
>
> Links:
> ------
> [1]
> https://uk.groups.yahoo.com/group/mkars80;_ylc=X3oDMTJmbGNqMHVrBF9TAzk3NDkwNTA1BGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzOTM4MDg2NjE-
> [2]
> https://uk.groups.yahoo.com/group/mkars80/members;_ylc=X3oDMTJnMWNwNGFqBF9TAzk3NDkwNTA1BGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzkzODA4NjYx?o=6
> [3]
> https://uk.groups.yahoo.com/group/mkars80/spnew;_ylc=X3oDMTJnbnBzYzNvBF9TAzk3NDkwNTA1BGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDdnRsBHNsawN2cGhvdARzdGltZQMxMzkzODA4NjYx
> [4]
> https://uk.groups.yahoo.com/;_ylc=X3oDMTJlYnAwN25uBF9TAzk3NDkwNTAzBGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM5MzgwODY2MQ--
> [5] https://info.yahoo.com/privacy/uk/yahoo/groups/details.html
> [6] https://info.yahoo.com/legal/uk/yahoo/utos/en-gb/details.html

3017. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-03 10:44:28 UTC
From: <petro.1968@...>
Topic: 3015 Message: 3017

I did that. And decided to listen it on the working #1 rig. On 2-3 feet wire and head phones. First I start signal/tone generator and tune Rx so to hear same tone. It hapens to be 230Hz below Tx frequence. I Tx on my magnet loop. The tone is received quite distorted.

I decided to put this experiment because before that I did it with my voice while playing with the preset. I was able to hear what was going out of the rig. Loud or quite my voice was always distorted. I would say more than 50%. Seemed like my voice was modulated with about 100Hz. It sounds like power suply. I dont think so.

Peter

3018. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-03 21:27:12 UTC
From: Steve Drury
Topic: 3015 Message: 3018

Pedro,
Is the microphone properly earthed and are you using screened lead? You
may be getting the 100Hz from your power supply. Do you have a 12V
battery you can test it with?
Regards,
Steve G6ALU

On 3/3/2014 10:44 AM, petro.1968@... wrote:
>
>
> I did that. And decided to listen it on the working #1 rig. On 2-3
> feet wire and head phones. First I start signal/tone generator and
> tune Rx so to hear same tone. It hapens to be 230Hz below Tx
> frequence. I Tx on my magnet loop. The tone is received quite distorted.
>
> I decided to put this experiment because before that I did it with my
> voice while playing with the preset. I was able to hear what was going
> out of the rig. Loud or quite my voice was always distorted. I would
> say more than 50%. Seemed like my voice was modulated with about
> 100Hz. It sounds like power suply. I dont think so.
>
> Peter
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2014.0.4259 / Virus Database: 3705/7148 - Release Date: 03/03/14
>

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4259 / Virus Database: 3705/7148 - Release Date: 03/03/14

3019. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-04 03:32:35 UTC
From: Daniel Ricardo Perez
Topic: 3015 Message: 3019

I can't help about the distortion subject. But if you notice 100Hz influence, take into account that received RF looking for a ground return, if traveling across the power supply will get modulated by the diodes! They are opening and closing the way back to the mains 100 times per second. I couldn't believe it: a Tx (AM in this case) with no hum, and a Rx with no hum, either from power supply ripple or tranformer's stray magnetic field, if the received signal was too strong there appeared a noticeable 100Hz in the loudspeaker that could only be cured with 0,1uF discs in parallel with the rectifiers. Give this a try.
Daniel LW1ECP

El lun 3-mar-14, Steve Drury <steve@...> escribió:
Asunto: Re: [mkars80] RE: Attached microphone and integr ated PTT
Para: mkars80@...
Fecha: lunes, 3 de marzo de 2014, 18:27
Pedro,
Is the microphone properly earthed and are you using screened lead? You may be getting the 100Hz from your power supply. Do you have a 12V battery you can test it with?
Regards, Steve G6ALU

On 3/3/2014 10:44 AM, petro.1968@... wrote:
> I did that. And decided to listen it on the working #1 rig. On 2-3 feet wire and head phones. First I start signal/tone generator and tune Rx so to hear same tone. It hapens to be 230Hz below Tx frequence. I Tx on my magnet loop. The tone is received quite distorted.
> I decided to put this experiment because before that I did it with my voice while playing with the preset. I was able to hear what was going out of the rig. Loud or quite my voice was always distorted. I would say more than 50%. Seemed like my voice was modulated with about 100Hz. It sounds like power suply. I dont think so.
> Peter

3020. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-04 07:52:52 UTC
From: <petro.1968@...>
Topic: 3015 Message: 3020

Thanks, Thanks a lot!

I just tryed battery power suply. 14.4V from Black&Decker Drill. It was about 14.1V. The same distortion.
But noticed something else. The rig is receiving without antenna at all. The same #2 rig with Tx problem. May be bacause it is not yet in a box.... The box is not yet drilled
I have a heavy noise at my place. Including power lines about 20 meters away. All the apartment building (40~50 units) is connected ~15m away from my room.
(I Rx one paticular VHF repeater with the same ~100Hz "noise". Very heavy "noise", more laud than the repeaters audio. Few days ago they was changing a pole and cut the power and I received very nice audio from that repeater, that noise was gone. For awhile.)

So what I see is:
- no box
- heavy noise includig power lines
- no grounding at all

May be have to drill a box..

.....
.... after hour or two
Just checked Again. May be it is not 100Hz modulation. Naw it sound to me like common overdrive distortion. I am not deep into terminology, I mean when the signal is too big for the amplyfire to handle. Rx is good.

3021. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-04 12:08:15 UTC
From: steve@...
Topic: 3015 Message: 3021

Petro, could it be feedback?
Steve

On 2014-03-04 07:52, petro.1968@... wrote:
> Thanks, Thanks a lot!
>
> I just tryed battery power suply. 14.4V from Black&Decker Drill. It
> was about 14.1V. The same distortion.
> But noticed something else. The rig is receiving without antenna at
> all. The same #2 rig with Tx problem. May be bacause it is not yet in
> a box.... The box is not yet drilled
> I have a heavy noise at my place. Including power lines about 20
> meters away. All the apartment building (40~50 units) is connected
> ~15m away from my room.
> (I Rx one paticular VHF repeater with the same ~100Hz "noise". Very
> heavy "noise", more laud than the repeaters audio. Few days ago they
> was changing a pole and cut the power and I received very nice audio
> from that repeater, that noise was gone. For awhile.)
>
> So what I see is:
> - no box
> - heavy noise includig power lines
> - no grounding at all
>
> May be have to drill a box..
>
> .....
> .... after hour or two
> Just checked Again. May be it is not 100Hz modulation. Naw it sound to
> me like common overdrive distortion. I am not deep into terminology, I
> mean when the signal is too big for the amplyfire to handle. Rx is
> good.
>
>
>
> Visit Your Group [1]
>
> * New Members [2] 1
> * New Photos [3] 2
>
>
>
> Links:
> ------
> [1]

> https://uk.groups.yahoo.com/group/mkars80;_ylc=X3oDMTJmMGNwNmRoBF9TAzk3NDkwNTA1BGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzOTM5MTk1NzM-
> [2]
> https://uk.groups.yahoo.com/group/mkars80/members;_ylc=X3oDMTJnM3BoNGdlBF9TAzk3NDkwNTA1BGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzkzOTE5NTcz?o=6
> [3]
> https://uk.groups.yahoo.com/group/mkars80/spnew;_ylc=X3oDMTJnOTRkMWFnBF9TAzk3NDkwNTA1BGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDdnRsBHNsawN2cGhvdARzdGltZQMxMzkzOTE5NTcz
> [4]
> https://uk.groups.yahoo.com/;_ylc=X3oDMTJlNXEwcTZuBF9TAzk3NDkwNTAzBGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM5MzkxOTU3Mw--
> [5] https://info.yahoo.com/privacy/uk/yahoo/groups/details.html
> [6] https://info.yahoo.com/legal/uk/yahoo/utos/en-gb/details.html

3022. Re: [mkars80] RE: Attached microphone and integr ated PTT

Yahoo group: mkars80
Date: 2014-03-05 08:34:15 UTC
From: <petro.1968@...>
Topic: 3015 Message: 3022

I cut the box today. Made a big mess. Cut the side flipped. Then cut it again. Now the box look like swiss chease. Any way, no result. Same distorted audio.

3023. Re Swiss cheese box

Yahoo group: mkars80
Date: 2014-03-05 19:11:13 UTC
From: <johncronhelm@...>
Topic: 3015 Message: 3023

Peter, not to worry; it is amazing how well any deficiencies in the cut out are concealed by the printed paper covering on the aluminium box. John, vo1jcc.

3024. MKARS80 Cases

Yahoo group: mkars80
Date: 2014-03-11 21:07:16 UTC
From: Steve Drury
Topic: 3024 Message: 3024

For a long while I've had problems getting the cases I use for SWR meters and the MKARS80, for the MKARS80 this has been solved - I have had manufactured a quantity of quality cases which have all the holes laser cut... no more drilling! As you would expect bespoke cases are expensive but for the MKARS80 kit I have been able to retain the old kit price, the boxed version now comes with knobs included.

Boxes are finished in a textured white polyester finish, these aren't screen printed with labels so you can still add the personal touch with your own panel overlay.

Steve G6ALU

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4335 / Virus Database: 3722/7180 - Release Date: 03/11/14

3025. Re: MKARS80 Cases

Yahoo group: mkars80
Date: 2014-03-12 18:11:18 UTC
From: <g8jcf@...>
Topic: 3024 Message: 3025

Steve

Can those of us who have already purchased your MKARS80 kit, purchase just the new enclosure ?

73

Peter (GM8JCF)

3026. Re: [mkars80] Re: MKARS80 Cases

Yahoo group: mkars80
Date: 2014-03-12 19:37:04 UTC
From: Steve Drury
Topic: 3024 Message: 3026

Hello Peter,

As a service to existing customers I will sell them at cost price of £17
+ postage and PayPal fees, if in the UK you can avoid the PayPal fee by
doing a direct bank transfer.

If interested please send me an email - DO NOT make a PayPal transfer
without me knowing or it may go to the wrong account.

Steve G6ALU

On 3/12/2014 6:11 PM, g8jcf@... wrote:
>
>
> Steve
>
> Can those of us who have already purchased your MKARS80 kit, purchase
> just the new enclosure ?
>
> 73
>
> Peter (GM8JCF)
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2014.0.4335 / Virus Database: 3722/7186 - Release Date: 03/12/14
>

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4336 / Virus Database: 3722/7186 - Release Date: 03/12/14

3027. Re: [mkars80] Re: MKARS80 Cases

Yahoo group: mkars80
Date: 2014-03-13 09:32:02 UTC
From: <g8jcf@...>
Topic: 3024 Message: 3027

Hi Steve

Very many thanks for the swift reply. I would indeed be very keen to purchase one of the new cases and am happy to pay by direct bank transfer please.

If you could please send Sort Code and Bank A/C number to g8jcf (at) g8jcfsdr (dot) dyndns (dot) org together with the total amount payable and a reference code, then I will do the bank transfer.

Is that OK with you ?

Many thanks

Peter GM8JCF

3028. Cases

Yahoo group: mkars80
Date: 2014-03-13 15:34:51 UTC
From: Dean Davis
Topic: 3028 Message: 3028

Are the new cases available for purchase?

Dean Davis, N7XG

Secondary QSL Manager, TEAM member FT5ZM - Amsterdam 2014!

http://www.amsterdamdx.org/donation/

www.amsterdamdx.org

3029. Re: [mkars80] Cases

Yahoo group: mkars80
Date: 2014-03-13 21:01:21 UTC
From: Steve Drury
Topic: 3028 Message: 3029

Dean (and everyone else),

Cases are available; for this batch only I will sell them at cost, which with postage and Paypal fees is GBP 22 to UK and Europe and GBP 23 international.

If you want a set of knobs and rubber feet these are an additional GBP 2.00

Let me know if you want one and I will send you Paypal invoice.

Regards,
Steve G6ALU

On 3/13/2014 3:34 PM, Dean Davis wrote:
>
>
> Are the new cases available for purchase?
>
> Dean Davis, N7XG
>
> Secondary QSL Manager, TEAM member FT5ZM - Amsterdam 2014!
>
> <http://www.amsterdamdx.org/donation/>http://www.amsterdamdx.org/donation/
>
> cid:image001.png@01CE7C3A.740E88A0
>
> <http://www.amsterdamdx.org/>www.amsterdamdx.org
> <http://www.amsterdamdx.org>
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2014.0.4336 / Virus Database: 3722/7191 - Release Date: 03/13/14
>

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4336 / Virus Database: 3722/7191 - Release Date: 03/13/14

3030. Re: [mkars80] Cases

Yahoo group: mkars80
Date: 2014-03-13 21:48:23 UTC
From: Jon Carp
Topic: 3028 Message: 3030

Yes please

Sent from my iPhone

> On 13 Mar 2014, at 21:01, Steve Drury <steve@...> wrote:
>
> Dean (and everyone else),
>
> Cases are available; for this batch only I will sell them at cost, which with postage and Paypal fees is GBP 22 to UK and Europe and GBP 23 international.
>
> If you want a set of knobs and rubber feet these are an additional GBP 2.00
>
> Let me know if you want one and I will send you Paypal invoice.
>
> Regards,
> Steve G6ALU
>
>> On 3/13/2014 3:34 PM, Dean Davis wrote:
>> Are the new cases available for purchase?
>>
>> Dean Davis, N7XG
>>
>> Secondary QSL Manager, TEAM member FT5ZM - Amsterdam 2014!
>>
>> http://www.amsterdamdx.org/donation/
>>
>>
>>
>> www.amsterdamdx.org
>> No virus found in this message.
>> Checked by AVG - www.avg.com
>> Version: 2014.0.4336 / Virus Database: 3722/7191 - Release Date: 03/13/14
>>
>
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2014.0.4336 / Virus Database: 3722/7191 - Release Date: 03/13/14
>
>

3031. Re: [mkars80] Cases

Yahoo group: mkars80
Date: 2014-03-13 22:02:24 UTC
From: Dean Davis
Topic: 3028 Message: 3031

Steve,

Yes one case and knobs please.

Dean Davis, N7XG

Secondary QSL Manager, TEAM member FT5ZM - Amsterdam 2014!

http://www.amsterdamdx.org/donation/

www.amsterdamdx.org

From: "Jon Carp" <joncarp@...>
Sent: Thursday, March 13, 2014 2:56 PM
To: "mkars80@..." <mkars80@...>
Subject: Re: [mkars80] Cases

Yes please

Sent from my iPhone

On 13 Mar 2014, at 21:01, Steve Drury <steve@radio-kits.co.uk> wrote:

Dean (and everyone else),

Cases are available; for this batch only I will sell them at cost, which with postage and Paypal fees is GBP 22 to UK and Europe and GBP 23 international.

If you want a set of knobs and rubber feet these are an additional GBP 2.00

Let me know if you want one and I will send you Paypal invoice.

Regards,
Steve G6ALU

On 3/13/2014 3:34 PM, Dean Davis wrote:
Are the new cases available for purchase?

Dean Davis, N7XG

Secondary QSL Manager, TEAM member FT5ZM - Amsterdam 2014!

http://www.amsterdamdx.org/donation/

www.amsterdamdx.org

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4336 / Virus Database: 3722/7191 - Release Date: 03/13/14

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4336 / Virus Database: 3722/7191 - Release Date: 03/13/14

3032. Re: Cases

Yahoo group: mkars80
Date: 2014-03-14 02:46:32 UTC
From: <alphaindia4oscartango@...>
Topic: 3028 Message: 3032

Count me in for a case too. Thanks! 73 de charles smith ai4ot

3033. SWR/S/Pwr meter - how can I build one

Yahoo group: mkars80
Date: 2014-03-16 05:09:38 UTC
From: <petro.1968@...>
Topic: 3033 Message: 3033

I want to build an SWR meter. This is my main question. I already bought tiny ammeter (100microA) And search on internet. This looks good to me (VK5AJL - Build your own strip line SWR meter) .

Another itchy question. How the S-meter works, where and how it is connected.

Thanks. Peter.

3034. Re: [mkars80] SWR/S/Pwr meter - how can I build one

Yahoo group: mkars80
Date: 2014-03-16 18:37:07 UTC
From: Steve Drury
Topic: 3033 Message: 3034

Hi Peter,
What frequency do you want to build an SWR meter for? For each band of frequencies (HF, VHF & UHF) there are different circuits which are appropriate.

An S meter normally measures the AGC (automatic gain control) voltage and uses this to drive an indicator.

If you haven't already got it / them I would recommend from the RSGB the "Radio Communication Handbook" and the ARRL "Handbook for Radio Communications" , another excellent publication is EMRFD (Experimental Methods is RF design). All are quite expensive but you can often pick up old copies at junk sales.

Hope this helps.

Regards,
Steve G6ALU

On 3/16/2014 5:09 AM, petro.1968@... wrote:
>
>
> I want to build an SWR meter. This is my main question. I already
> bought tiny ammeter (100microA) And search on internet. This looks
> good to me (VK5AJL - Build your own strip line SWR meter) .
>
> Another itchy question. How the S-meter works, where and how it is
> connected.
>
> Thanks. Peter.
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2014.0.4336 / Virus Database: 3722/7195 - Release Date: 03/14/14
>

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4336 / Virus Database: 3722/7202 - Release Date: 03/16/14

3035. Re: SWR/S/Pwr meter - how can I build one

Yahoo group: mkars80
Date: 2014-03-17 01:22:16 UTC
From: Mike Lichtman
Topic: 3033 Message: 3035

Peter,
Take a look at the Oak Hills Research WM 2 QRP Wattmeter. It accurately reads QRP power forward and reverse and it was fun to assemble the kit.
73 Mike KF6KXG

3036. Re: SWR/S/Pwr meter - how can I build one

Yahoo group: mkars80
Date: 2014-03-17 02:01:37 UTC
From: <petro.1968@...>
Topic: 3033 Message: 3036

Thank you Steve! SWR for my MKARS80 :)
Thanks Mike, I will check it.

3037. Mkarrs80 built but feedback problem on varicon tuning...ON RECEIVE!!!

Yahoo group: mkars80
Date: 2014-04-07 10:29:00 UTC
From: <beightonhome@...>
Topic: 3037 Message: 3037

I get to around 3.600 and the speaker squeals....can hear static but no discernible stations... checked all parts AGAIN...2nd tick list to confirm correct placement....5volt yep - 8volt yep...display fine etc....stumped as to what to check now!

3038. Re: [mkars80] Mkarrs80 built but feedback problem on varicon tuning...ON RECEIVE!!!

Yahoo group: mkars80
Date: 2014-04-07 11:53:26 UTC
From: Steve Drury
Topic: 3037 Message: 3038

Sorry don't know your name!

I must confess I've not had that problem before... having a think then will come back to you - until then can you check all the voltages in the table, this could point to a problem.

Steve G6ALU

On 4/7/2014 11:29 AM, beightonhome@... wrote:
>
>
> I get to around 3.600 and the speaker squeals....can hear static but
> no discernible stations... checked all parts AGAIN...2nd tick list to
> confirm correct placement....5volt yep - 8volt yep...display fine
> etc....stumped as to what to check now!
>
>
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2014.0.4355 / Virus Database: 3722/7311 - Release Date: 04/07/14
>

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4355 / Virus Database: 3722/7311 - Release Date: 04/07/14

3039. Re: [mkars80] Mkarrs80 built but feedback problem on varicon tuning...ON RECEIVE!!!

Yahoo group: mkars80
Date: 2014-04-09 20:34:02 UTC
From: Rebecca
Topic: 3037 Message: 3039

On 07/04/2014 12:53, Steve Drury wrote:
>
> Sorry don't know your name!
>
> I must confess I've not had that problem before... having a think then
> will come back to you - until then can you check all the voltages in
> the table, this could point to a problem.
>
> Steve G6ALU
>
> On 4/7/2014 11:29 AM, beightonhome@... wrote:
>> I get to around 3.600 and the speaker squeals....can hear static but
>> no discernible stations... checked all parts AGAIN...2nd tick list to
>> confirm correct placement....5volt yep - 8volt yep...display fine
>> etc....stumped as to what to check now!
>>
>>
>> No virus found in this message.
>> Checked by AVG - www.avg.com <http://www.avg.com>
>> Version: 2014.0.4355 / Virus Database: 3722/7311 - Release Date: 04/07/14
>>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2014.0.4355 / Virus Database: 3722/7311 - Release Date: 04/07/14
>
>
resolved.....resoldered all windingsand the problem has gone.....now
working perfectly....thanks for coming back...Paul by the way (M6POZ).

P.

3040. MKARS80 on ebay

Yahoo group: mkars80
Date: 2014-04-21 12:15:42 UTC
From: Steve Drury
Topic: 1707 Message: 3040

There have been about 1500 MKARS80 sold so its inevitable that they
appear for sale on ebay and at radio fairs etc. - there appears to be a
well built one for sale on ebay at the moment, see:

http://www.ebay.co.uk/itm/MKARS80-QRP-SSB-80m-TRANSCEIVER-/291129350743?pt=UK_Mobile_Phone
s_Communication_Ham_Radio_Receivers_Transceivers&hash=item43c8a95a57

Steve G6ALU

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4355 / Virus Database: 3882/7372 - Release Date: 04/21/14

3041. Re: Another radio is complete. Almost.

Yahoo group: mkars80
Date: 2014-05-15 07:47:36 UTC
From: petro.1968@...
Topic: 2971 Message: 3041

Hi, I fixed my #2 rig. It was transmitting at very low power. Good felow handed me an osciloskope and I found that the final transistor did not amplyfy. I changed and it worked for a while. then the fuse went off. changed the fuse and transistor and now it works. forgot to check again the voltages on the final.

3042. BFO Calibration. Help...

Yahoo group: mkars80
Date: 2014-08-23 18:45:45 UTC
From: n.tooby@...
Topic: 3042 Message: 3042

Page 12 of the V1.3 manual... have set up the tuning range no problem but the BFO is problematic.I tried option 2 first and when I'd adjusted C83 for a clear signal asll it had done is shift the frequency up by 250 Hz. I though the point was that the frequency stayed constand whilst the BFO was adjusted?

So, on to option 1 (adjust for 10 Mhz measured at "TP 10 Mhz"). Forgive my ignorance, but where exactly do I stick the probes to do this? Is there a helpful picture/diagram anywhere?

Yours thickly (lol)

3043. Re: [mkars80] BFO Calibration. Help...

Yahoo group: mkars80
Date: 2014-08-23 19:54:09 UTC
From: John
Topic: 3042 Message: 3043

Hi

It's a long time since I did this but the test point is on the opposite
side of VR2 to the Xtal.
If you look at the layout on page 25 VR2 is at the 3 o'clock position
and the test point is just above it next to C48.

Regards,
John

On 23/08/2014 19:45, n.tooby@... [mkars80] wrote:
>
> Page 12 of the V1.3 manual... have set up the tuning range no problem
> but the BFO is problematic.I tried option 2 first and when I'd
> adjusted C83 for a clear signal asll it had done is shift the
> frequency up by 250 Hz. I though the point was that the frequency
> stayed constand whilst the BFO was adjusted?
>
> So, on to option 1 (adjust for 10 Mhz measured at "TP 10 Mhz").
> Forgive my ignorance, but where exactly do I stick the probes to do
> this? Is there a helpful picture/diagram anywhere?
>
> Yours thickly (lol)
>
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

3044. Re: [mkars80] BFO Calibration. Help...

Yahoo group: mkars80
Date: 2014-08-23 20:06:18 UTC
From: Steve G6ALU
Topic: 3042 Message: 3044

No not thick just not done it before...connect the ground lead (does you frequency counter have a crocodile clip for ground?) to earth - one of the mounting holes will do - and the probe to the pad marked Tp10MHz.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "n.tooby@btinternet.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 23/08/2014 19:45 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] BFO Calibration. Help...

Page 12 of the V1.3 manual... have set up the tuning range no problem but the BFO is problematic.I tried option 2 first and when I'd adjusted C83 for a clear signal asll it had done is shift the frequency up by 250 Hz. I though the point was that the frequency stayed constand whilst the BFO was adjusted?

So, on to option 1 (adjust for 10 Mhz measured at "TP 10 Mhz"). Forgive my ignorance, but where exactly do I stick the probes to do this? Is there a helpful picture/diagram anywhere?

Yours thickly (lol)

3045. Re:: Re: [mkars80] BFO Calibration. Help...

Yahoo group: mkars80
Date: 2014-08-24 11:36:54 UTC
From: n.tooby@...
Topic: 3042 Message: 3045

Steve,Many thanks for that. Sorted. We am now on the final stage of testing... working through these with my Wife and Son who are building these kits for the intermediate assessment; so two builds on the go at once.

Ok, so we're all ok up to page 3 (R2 bias current) On kit 1 the RCV drain is 108.9 mA and on XMT (LED lights) the drain rises to 300 mA with R2 fully anti-clockwise. turning R2 clockwise in small increments seems to have no effect at first but then jumps to 500mA, so a 50 mA increase is not attainable.

On kit 2 the RCV drain is 109.2 mA and this rises to 220 mA. R2 seems to have no effect.

In testing, we have only ever keyed for a flash to test the current (2 sec max) tweaking R2 and then re-keying to test current drain.

So, we connected a dummy load and power meter to both kits, keyed and spoke to mic. No output on both, so they are not transmitting anything. The interesting thing was that between the R2 tests this morning and the XMIT test just mentioned, the LED on kit 2 now refuses to light.

All is still ok on the receive and tuning though....

I have again inspected for dry joints but can't see any obvious candidates for the two of them to fix. Any thoughts?

3046. Re:: Re: [mkars80] BFO Calibration. Help...

Yahoo group: mkars80
Date: 2014-08-24 15:14:34 UTC
From: Steve G6ALU
Topic: 3042 Message: 3046

Nigel,
When setting the bias always have a dummy load fitted. Adjust the preset whilst transmitting as it will be very sensitive. More via private email.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "n.tooby@btinternet.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 24/08/2014 12:36 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: Re:: Re: [mkars80] BFO Calibration. Help...

Steve,Many thanks for that. Sorted. We am now on the final stage of testing... working through these with my Wife and Son who are building these kits for the intermediate assessment; so two builds on the go at once.

Ok, so we're all ok up to page 3 (R2 bias current) On kit 1 the RCV drain is 108.9 mA and on XMT (LED lights) the drain rises to 300 mA with R2 fully anti-clockwise. turning R2 clockwise in small increments seems to have no effect at first but then jumps to 500mA, so a 50 mA increase is not attainable.

On kit 2 the RCV drain is 109.2 mA and this rises to 220 mA. R2 seems to have no effect.

In testing, we have only ever keyed for a flash to test the current (2 sec max) tweaking R2 and then re-keying to test current drain.

So, we connected a dummy load and power meter to both kits, keyed and spoke to mic. No output on both, so they are not transmitting anything. The interesting thing was that between the R2 tests this morning and the XMIT test just mentioned, the LED on kit 2 now refuses to light.

All is still ok on the receive and tuning though....

I have again inspected for dry joints but can't see any obvious candidates for the two of them to fix. Any thoughts?

3047. Problem mounting the Polyvaricon

Yahoo group: mkars80
Date: 2015-01-10 22:39:33 UTC
From: do1rvd@...
Topic: 3047 Message: 3047

I got through the assebly without any bigger difficulties, until I got to the Polyvaricon. The contacts of the Polyvaricon are to broad for the holes in the PCB.

I tried to press them in with a little bit more force but had no success. So my next try was to fold the contacts with a plier, so they fit through the holes. This didn't work either.

Ideas are welcome.

Thanks, Rolf

3048. Re: [mkars80] Problem mounting the Polyvaricon

Yahoo group: mkars80
Date: 2015-01-10 23:12:28 UTC
From: Steve G6ALU
Topic: 3047 Message: 3048

Hi Rolf, unfortunately the manufacturer varies the width of the terminals...if you are unable to trim the terminals with a pair of side cutters I can send you one which will fit the board without further modification.

Sorry for your problem,
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "do1rvd@yahoo.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 10/01/2015 22:39 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Problem mounting the Polyvaricon

I got through the assebly without any bigger difficulties, until I got to the Polyvaricon. The contacts of the Polyvaricon are to broad for the holes in the PCB.

I tried to press them in with a little bit more force but had no success. So my next try was to fold the contacts with a plier, so they fit through the holes. This didn't work either.

Ideas are welcome.

Thanks, Rolf

3049. Re:: Re: [mkars80] Problem mounting the Polyvaricon

Yahoo group: mkars80
Date: 2015-01-11 11:49:29 UTC
From: do1rvd@...
Topic: 3047 Message: 3049

Hi Steve,

as the terminals were already a bit stressed by my folding attempts, trimming the terminals with a side cutter didn't went well. Two terminals broke off with 2mm length left. I cropped all three terminals down to that length, bended them 90 degrees and soldered them flat on the soldering points on the component side of the PCB.

With the Polyvaricon held through the two screws, I think this will work as long as there is no torsion or tensile stress on the joints. Just as safety percaution it would be nice if I had an Polyvaricon as spare part.

I already planned to order the Digital SWR Meter kit, so you can put it all in one delivery. I will place the order later today. We just need to find a way for the payment for the Polyvaricon. If you tell me the price I can pay it via paypal.

Thanks in advance,
Rolf DO1RVD

3050. Re:: Re: [mkars80] Problem mounting the Polyvaricon

Yahoo group: mkars80
Date: 2015-01-11 13:11:43 UTC
From: Steve G6ALU
Topic: 3047 Message: 3050

No charge for the Polyvaricon...
Steve

Sent from Samsung tablet

-------- Original message --------
From: "do1rvd@yahoo.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 11/01/2015 11:49 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: Re:: Re: [mkars80] Problem mounting the Polyvaricon

Hi Steve,

as the terminals were already a bit stressed by my folding attempts, trimming the terminals with a side cutter didn't went well. Two terminals broke off with 2mm length left. I cropped all three terminals down to that length, bended them 90 degrees and soldered them flat on the soldering points on the component side of the PCB.

With the Polyvaricon held through the two screws, I think this will work as long as there is no torsion or tensile stress on the joints. Just as safety percaution it would be nice if I had an Polyvaricon as spare part.

I already planned to order the Digital SWR Meter kit, so you can put it all in one delivery. I will place the order later today. We just need to find a way for the payment for the Polyvaricon. If you tell me the price I can pay it via paypal.

Thanks in advance,
Rolf DO1RVD

3051. Re: [mkars80] Problem mounting the Polyvaricon

Yahoo group: mkars80
Date: 2015-01-11 22:24:43 UTC
From: K.Greenough
Topic: 3047 Message: 3051

Alternatively, trim the polyvaricon leads so they just reach the board
and then solder wire spills through the holes and to the leads.
73 Ken g8beq

This email has been checked for viruses by Avast antivirus software.
http://www.avast.com

3052. changing to usb for jt65 use

Yahoo group: mkars80
Date: 2015-02-28 15:36:07 UTC
From: g0muc@...
Topic: 3052 Message: 3052

hi

I'm wondering if its possible to change from lsb to usb for the mkars80
the reason is i have 2 of these radios and would like to use digital modes with one ie jt65 rtty etc
but as you know these modes are mainly using usb

is there an easy viable way of changing to the upper side band it does not matter if permanent ??

thanks De G0MUC Simon

3053. Re: [mkars80] changing to usb for jt65 use

Yahoo group: mkars80
Date: 2015-02-28 16:07:01 UTC
From: Steve G6ALU
Topic: 3052 Message: 3053

Simon, most software has an invert function...for PSK31 etc you don't need to change the sideband.

I guess it is possible, needs the carrier insertion oscillator pulling (lowering in frequency) to the other side of the carrier, note that the crystal filter is only really suitable for LSB as it has a sharp cutoff on the lower frequency side - the mixing process generates a USB IF from the incoming LSB signal.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "g0muc@yahoo.co.uk [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 28/02/2015 15:36 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] changing to usb for jt65 use

hi

I'm wondering if its possible to change from lsb to usb for the mkars80
the reason is i have 2 of these radios and would like to use digital modes with one ie jt65 rtty etc
but as you know these modes are mainly using usb

is there an easy viable way of changing to the upper side band it does not matter if permanent ??

thanks De G0MUC Simon

3054. RE: [mkars80] changing to usb for jt65 use

Yahoo group: mkars80
Date: 2015-02-28 21:56:53 UTC
From: Phil Hayes
Topic: 3052 Message: 3054

Hi Simon,

In the past I've successfully run my mkars80 in digi modes, the only problem that I experienced was frequency drift due to over heating.

To reduce the heat build up I fitted a small fan from an old PC mother board, I also added a series resister to the 12V fan as the mkars80 supply was 15.5V, fitting the fan cured the frequency drift.

Regards,

Phil

M0PIT

From: mkars80@... [mailto:mkars80@...]
Sent: 28 February 2015 15:36
To: mkars80@...
Subject: [mkars80] changing to usb for jt65 use

hi

I'm wondering if its possible to change from lsb to usb for the mkars80
the reason is i have 2 of these radios and would like to use digital modes
with one ie jt65 rtty etc
but as you know these modes are mainly using usb

is there an easy viable way of changing to the upper side band it does not matter if permanent ??

thanks De G0MUC Simon

[Non-text portions of this message have been removed]

3055. Anyone Finish Blazing the Trail for 40 Meters MKARS Mod?

Yahoo group: mkars80
Date: 2015-03-29 08:01:38 UTC
From: Wayne.A.Wheeler@...
Topic: 3055 Message: 3055

New ham looking to build an MKARS for SOTA activations. I have a TenTec Rebel for CW, but my CW is not yet up to par yet!

Things I like about the MKARS
- Club heritage (Epiphyte)
- Integrated frequency display
- Great build instructions
- Great reviews
- British :) Add cool factor for us yanks :)
- Huff and puff stabilizer
- New "no drill" 3D printed enclosure
- Small size and power perfect for SOTA
- Very reasonable price
- Great community (this group)

Things I don't like
- No 20/40 meter - to my limited knowledge, 80 meter would just not be "open" to provide many contacts mid day when you could find your way on top of a mountain for SOTA activations.
I know electronics, but have limited hands on radio experience. I could certainly sub parts, but do not have a way to burn a new PIC controller at present. (I think someone found 40 meters required a different IF frequency?)

Any help appreciated, or maybe a 40 meter version may be in the works.

Thanks,

Wayne
W6AHH

3056. Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-17 07:23:55 UTC
From: matthewklumper@...
Topic: 3056 Message: 3056

Hi, thanks for adding me to this group.

I recently completed the component portion of the MKARS80, and started testing it. When I initially started it up there was no noise except a small pop from the speaker and a low static noise. I tested my voltages and they looked good, but then there started to be a faint whining noise from the internal loudspeaker i had wired up. A few seconds later the faint whine became a loud whine and now it does that whenever I apply power.

The internal loudspeaker had fallen down from the top of the board where I had it balanced and it's back was against the polyvaricon. Actually the magnet was even stuck to it a little. Could this be what caused the problem? Does anyone have any other ideas?

3057. Re: [mkars80] Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-17 12:26:23 UTC
From: Steve G6ALU
Topic: 3056 Message: 3057

Sent from Samsung tablet

-------- Original message --------
From: "matthewklumper@gmail.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 17/05/2015 08:23 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Whining noise on startup test

Hi, thanks for adding me to this group.

I recently completed the component portion of the MKARS80, and started testing it. When I initially started it up there was no noise except a small pop from the speaker and a low static noise. I tested my voltages and they looked good, but then there started to be a faint whining noise from the internal loudspeaker i had wired up. A few seconds later the faint whine became a loud whine and now it does that whenever I apply power.

The internal loudspeaker had fallen down from the top of the board where I had it balanced and it's back was against the polyvaricon. Actually the magnet was even stuck to it a little. Could this be what caused the problem? Does anyone have any other ideas?

3058. Re: [mkars80] Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-17 12:34:54 UTC
From: Steve G6ALU
Topic: 3056 Message: 3058

Hi Mathew,
Sorry about the blank email....!
First place to start is by taking voltage readings, the polyvaricon is DC isolated so you shouldn't have damaged anything in that circuit. You may find that the problem doesn't have anything to do with your little "accident", if not I would check the connections on all the mixer transformer wires as poor connections here is quite common.
Let us know how you get on.
Regards,
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "matthewklumper@gmail.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 17/05/2015 08:23 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Whining noise on startup test

Hi, thanks for adding me to this group.

I recently completed the component portion of the MKARS80, and started testing it. When I initially started it up there was no noise except a small pop from the speaker and a low static noise. I tested my voltages and they looked good, but then there started to be a faint whining noise from the internal loudspeaker i had wired up. A few seconds later the faint whine became a loud whine and now it does that whenever I apply power.

The internal loudspeaker had fallen down from the top of the board where I had it balanced and it's back was against the polyvaricon. Actually the magnet was even stuck to it a little. Could this be what caused the problem? Does anyone have any other ideas?

3059. Re:: Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-17 16:42:42 UTC
From: matthewklumper@...
Topic: 3056 Message: 3059

Ok, I checked my 5v at R34 and it read 5.04, and my 8v at VR2 and got 7.95v

I double checked all of my solder joints and reflowed anything suspect. When I applied power again, I got the same thing. Checking for presence of power at the (+) and (-) for the internal loudspeaker gave me a reading of 4.84 volts. So that's not right at all. Any insight as to where I should start looking for what's causing this?

3060. Re: [mkars80] Re:: Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-17 16:47:56 UTC
From: Steve Drury
Topic: 3056 Message: 3060

Matthew,

With no external speaker connected you should get 0V on both terminals
of the internal speaker - if you have voltage there check C2 for correct
orientation and solder splashes across its solder pads.

Steve

On 17/05/2015 17:42, matthewklumper@... [mkars80] wrote:
>
>
> Ok, I checked my 5v at R34 and it read 5.04, and my 8v at VR2 and got
> 7.95v
>
> I double checked all of my solder joints and reflowed anything
> suspect. When I applied power again, I got the same thing. Checking
> for presence of power at the (+) and (-) for the internal loudspeaker
> gave me a reading of 4.84 volts. So that's not right at all. Any
> insight as to where I should start looking for what's causing this?
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2015.0.5941 / Virus Database: 4342/9800 - Release Date: 05/17/15
>

3061. Re:: Re: [mkars80] Re:: Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-17 23:47:16 UTC
From: matthewklumper@...
Topic: 3056 Message: 3061

C2 checked out fine. I also took it out of circuit and tested it and it looked good.

Something strange though, when I touch the top right solder trace of the polyvaricon with my tweezers, the beeping stops. that's without touching anything else, either. In fact if I follow that circuit all the way through until q12 doing the same thing, the beeping will stop but the static will sound differently depending on where it's being touched. Like I said before, I'm ONLY touching one solder joint at a time and nothing else. Is it possible that my incident with the speaker shorted the polyvaricon? How do I test it?

3062. Re:: Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-18 03:22:36 UTC
From: matthewklumper@...
Topic: 3056 Message: 3062

I took the polyvaricon out of the circuit and tested from center point to right and then left pin. (Please let me know if I'm doing it wrong, I've never used one of these before) It read nothing on any combination of pins while it was sitting on the bench, but if I touch the post it will start reading up to 300uF for a half second, then 0uF, then back up to like 50uF, and so on. It jumps around like that when reading on my Fluke 12 multimeter, and doesn't read anything at all when I test it with my eBay special LCR meter. (I'm guessing it's jumping too fast for the latter to read) Anyway, I thought maybe this info could be useful.

3063. Re: [mkars80] Re:: Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-18 04:04:39 UTC
From: Daniel Ricardo Perez
Topic: 3056 Message: 3063

When one gets jumping readings as those you mention, touching a part, it's because the measuring instrument is being fooled by hum. The 50 or 60Hz mains cables around you capacitively induce some AC in your body, and you transfer it to the instrument. Depending on its design, it may be more or less susceptible to mains influence.
I don't think the louspeaker falling into the polyvaricon has to do with the problem. Most probably the shock loosened some weak solder joint somewhere in the PCB.
Daniel LW1ECP

El lun 18-may-15, matthewklumper@... [mkars80] <mkars80@...> escribió:
Asunto: [mkars80] Re:: Whining noise on startup test
I took the polyvaricon out of the circuit and tested from center point to right and then left pin. (Please let me know if I'm doing it wrong, I've never used one of these before) It read nothing on any combination of pins while it was sitting on the bench, but if I touch the post it will start reading up to 300uF for a half second, then 0uF, then back up to like 50uF, and so on. It jumps around like that when reading on my Fluke 12 multimeter, and doesn't read anything at all when I test it with my eBay special LCR meter. (I'm guessing it's jumping too fast for the latter to read) Anyway, I thought maybe this info could be useful.

3064. Re: [mkars80] Re:: Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-18 06:23:17 UTC
From: Steve Drury
Topic: 3056 Message: 3064

Matthew, I'm trying to decide where this whine is originating - is it very loud - if you have a modern phone do you want to video it and send the file directly to me?

Steve G6ALU

On 18/05/2015 04:22, matthewklumper@... [mkars80] wrote:
>
>
> I took the polyvaricon out of the circuit and tested from center point
> to right and then left pin. (Please let me know if I'm doing it wrong,
> I've never used one of these before) It read nothing on any
> combination of pins while it was sitting on the bench, but if I touch
> the post it will start reading up to 300uF for a half second, then
> 0uF, then back up to like 50uF, and so on. It jumps around like that
> when reading on my Fluke 12 multimeter, and doesn't read anything at
> all when I test it with my eBay special LCR meter. (I'm guessing it's
> jumping too fast for the latter to read) Anyway, I thought maybe this
> info could be useful.
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2015.0.5941 / Virus Database: 4342/9805 - Release Date: 05/18/15
>

3065. Re:: Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-18 07:02:55 UTC
From: andyakashrek@...
Topic: 3056 Message: 3065

Matthew has not mentioned how he is powering his radio, I would try powering it from mains and then from a battery. If the whine is the same from both power sources then try it in a different location ie the end of the garden. Reasoning behind my suggestion is I have just built a sw regen and had similar problems, I tracked mine down to a pair of PLA's putting broadband Internet through the house wiring. If your noise still exists after trying the above at least you will know that it is a problem with the circuitry. Fault finding starts with eliminating the obvious.

3066. Re:: Whining noise on startup test

Yahoo group: mkars80
Date: 2015-05-19 04:40:50 UTC
From: matthewklumper@...
Topic: 3056 Message: 3066

I soldered the polyvaricon back onto the board so that I could try some of the above suggestions and take a video to send. When I hooked it up to a battery and turned it on the noise was gone. Then, out of curiosity I hooked it up to the power supply again and the noise was STILL gone. It would appear that I had a poor solder connection at the polyvaricon that was probably aggravated by pulling on it with the magnet or something

It's pulling in stations nicely. Thanks for all the great tech support. I'm off to start aligning it now.

3067. 200Hz above

Yahoo group: mkars80
Date: 2015-06-08 00:03:40 UTC
From: petro.1968@...
Topic: 3067 Message: 3067

Hello, Yesturday I tryed again my second tranceiver with zepp antenna. The antenna try was disapointing but I noticed that my radio display, receive and transmit on about 200-300Hz above the friquence I receive.

The station\s was on 3.710.000Hz but I receve them best on 3.710.2++
When transmit, they say I am above theyr frieq.

What may be the problem?

The first radio is awsome! I install internal speaker from laptop an microphone from a cheap headset.
And is working flawlessly. It covers Bulgaria and neighbors. I tried it with horizontal V 3-2m above the grownd.

Regards,
Peter
73

3068. Re: [mkars80] 200Hz above

Yahoo group: mkars80
Date: 2015-06-08 18:12:25 UTC
From: Steve Drury
Topic: 3067 Message: 3068

Hi Peter,

The MKARS80 uses the same VFO for transmit and receive so it shouldn't transmit on a different frequency to it receives. Can you check the following; when going from receive to transmit do you get the unlocked "U" on the second line of the display? If not then the frequency hasn't changed.

Was the BFO set for exactly 10.00MHz at TP10MHz? If you adjust the BFO oscillator for best audio this may not be the exact frequency.

Regards,
Steve G6ALU

On 08/06/2015 01:03, petro.1968@... [mkars80] wrote:
>
>
> Hello,
> Yesturday I tryed again my second tranceiver with zepp antenna. The
> antenna try was disapointing but I noticed that my radio display,
> receive and transmit on about 200-300Hz above the friquence I receive.
>
> The station\s was on 3.710.000Hz but I receve them best on 3.710.2++
> When transmit, they say I am above theyr frieq.
>
> What may be the problem?
>
> The first radio is awsome! I install internal speaker from laptop an
> microphone from a cheap headset.
> And is working flawlessly. It covers Bulgaria and neighbors. I tried
> it with horizontal V 3-2m above the grownd.
>
> Regards,
> Peter
> 73
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2015.0.5961 / Virus Database: 4355/9976 - Release Date: 06/08/15
>

3069. Re: [mkars80] Digest Number 834

Yahoo group: mkars80
Date: 2015-06-09 21:25:56 UTC
From: Matty Cunningham
Topic: 3069 Message: 3069

MKARS80Would an internal speaker cause de-tuning when in use, and perhaps not do this on TX (if changing TX/RX is changing frequency?)

Matty

MD0MAN

From: mkars80@...
Sent: Tuesday, June 09, 2015 9:43 AM
To: mkars80@...
Subject: [mkars80] Digest Number 834

MKARS80 Group
1 Message Digest #834 1.1 Re: 200Hz above by "Steve Drury" hamlab3 Message
1.1 Re: 200Hz above Mon Jun 8, 2015 7:12 pm . Posted by: "Steve Drury" hamlab3 Hi Peter,

The MKARS80 uses the same VFO for transmit and receive so it shouldn't
transmit on a different frequency to it receives. Can you check the
following; when going from receive to transmit do you get the unlocked
"U" on the second line of the display? If not then the frequency hasn't
changed.

Was the BFO set for exactly 10.00MHz at TP10MHz? If you adjust the BFO
oscillator for best audio this may not be the exact frequency.

Regards,
Steve G6ALU

On 08/06/2015 01:03, petro.1968@... [mkars80] wrote:
>
>
> Hello,
> Yesturday I tryed again my second tranceiver with zepp antenna. The
> antenna try was disapointing but I noticed that my radio display,
> receive and transmit on about 200-300Hz above the friquence I receive.
>
> The station\s was on 3.710.000Hz but I receve them best on 3.710.2++
> When transmit, they say I am above theyr frieq.
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> What may be the problem?
>
> The first radio is awsome! I install internal speaker from laptop an
> microphone from a cheap headset.
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>

Reply to sender . Reply to group . Reply via Web Post . All Messages (2) . Top ^ Visit Your Group a.. New Members 1
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3070. Re: [mkars80] Digest Number 834

Yahoo group: mkars80
Date: 2015-06-10 03:56:54 UTC
From: Steve
Topic: 3069 Message: 3070

Yes but not sure if this is the issue - if the huff and puff becomes unlocked (look for the "U" in the display) this may be the case.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- Matty Cunningham manxmat@hotmail.com [mkars80] wrote ----

><!-- /* start of attachment style */ .ygrp-photo-title{ clear: both; font-size: smaller; height: 15px; overflow: hidden; text-align: center; width: 75px; } div.ygrp-photo{ background-position: center; background-repeat: no-repeat; background-color: white; border: 1px solid black; height: 62px; width: 62px; } div.photo-title a, div.photo-title a:active, div.photo-title a:hover, div.photo-title a:visited { text-decoration: none; } div.attach-table div.attach-row { clear: both; } div.attach-table div.attach-row div { float: left; /* margin: 2px;*/ } p { clear: both; padding: 15px 0 3px 0; overflow: hidden; } div.ygrp-file { width: 30px; valign: middle; } div.attach-table div.attach-row div div a { text-decoration: none; } div.attach-table div.attach-row div div span { font-weight: normal; } div.ygrp-file-title { font-weight: bold; } /* end of attachment style */ --> MKARS80 <!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial; margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%; font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration: none; } #ygrp-sponsor #ygrp-lc { font-family: Arial; } #ygrp-sponsor #ygrp-lc #hd { margin: 10px 0px; font-weight: 700; font-size: 78%; line-height: 122%; } #ygrp-sponsor #ygrp-lc .ad { margin-bottom: 10px; padding: 0 0; } -->
>
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>
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>Matty
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>
>MD0MAN
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>
>
>From: mkars80@yahoogroups.co.uk
>
>Sent: Tuesday, June 09, 2015 9:43 AM
>
>To: mkars80@yahoogroups.co.uk
>

>Subject: [mkars80] Digest Number 834
>
>
>
>OBJ
>
>MKARS80 Group
>
>1 Message
>
>Digest #834
>
>1.1
>
>Re: 200Hz above by "Steve Drury" hamlab3
>
>Message
>
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>On 08/06/2015 01:03, petro.1968@yahoo.com [mkars80] wrote:
>>
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>> Hello,
>> Yesturday I tryed again my second tranceiver with zepp antenna. The
>> antenna try was disapointing but I noticed that my radio display,
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>>
>
>Reply to sender . Reply to group . Reply via Web Post . All Messages (2) . Top ^
>
>Visit Your Group New Members 1
>
>[OBJ]
>
>• Privacy • Unsubscribe • Terms of Use
>
>
>
>

3071. Re:: 200Hz above

Yahoo group: mkars80
Date: 2015-08-03 03:14:59 UTC
From: petro.1968@...
Topic: 3067 Message: 3071

Thank you very much Steve! Recently I had time to go out and do the ajustment. It was easy thanks to you.

Would be nice to use some fine equipment like freq. counter, but using my ears I make it good enough. May be not more than 50Hz off.

Thank you very much once again.

My best regards,
Peter VE7BUL

3073. PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-08-31 14:15:44 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3073

Chaps.
I've acquired a "pre-built" MKARS80 and I'm having trouble setting up the bias as instructed.
If the PPT isn't closed I get a reading of 110 mA, when the PTT is closed (no audio) I cannot set the bias with R2 to anything less than 280mA.
The TX audio is also rather awful. I have tried two different mikes.
I'm pretty sure both of these problems will be connected.
I've checked all solder joints and even replaced the IFT510.
All other set up work fine.
Any ideas?
Rick.

3074. Re: [mkars80] PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-08-31 18:34:31 UTC
From: Steve G6ALU
Topic: 3073 Message: 3074

Hi Rick, 280mA with PTT pressed sounds normal - to adjust the bias with no audio increase the current by 50mA IE 320mA.

Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "rick.g6uzt@gmail.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 31/08/2015 15:15 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] PA Bias current adjustment.

Chaps.

I've acquired a "pre-built" MKARS80 and I'm having trouble setting up the bias as instructed.

If the PPT isn't closed I get a reading of 110 mA, when the PTT is closed (no audio) I cannot set the bias with R2 to anything less than 280mA.

The TX audio is also rather awful. I have tried two different mikes.

I'm pretty sure both of these problems will be connected.

I've checked all solder joints and even replaced the IFT510.

All other set up work fine.

Any ideas?

Rick.

3075. Re:: Re: [mkars80] PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-08-31 18:47:28 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3075

Ah, am I miss-reading the manual? So, I don't worry about the current drawn with no PTT pressed?
So I press the PTT then adjust for an increase of 50mA?
Is this correct?
Cheers.
Rick.

3076. Re:: Re: [mkars80] PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-08-31 19:28:43 UTC
From: Steve
Topic: 3073 Message: 3076

Yes, that's correct.
Steve

Sent from my Sony Xperia™ smartphone

---- rick.g6uzt@gmail.com [mkars80] wrote ----

><!-- /* start of attachment style */ .ygrp-photo-title{ clear: both; font-size: smaller; height: 15px; overflow: hidden; text-align: center; width: 75px; } div.ygrp-photo{ background-position: center; background-repeat: no-repeat; background-color: white; border: 1px solid black; height: 62px; width: 62px; } div.photo-title a, div.photo-title a:active, div.photo-title a:hover, div.photo-title a:visited { text-decoration: none; } div.attach-table div.attach-row { clear: both; } div.attach-table div.attach-row div { float: left; /* margin: 2px;*/ } p { clear: both; padding: 15px 0 3px 0; overflow: hidden; } div.ygrp-file { width: 30px; valign: middle; } div.attach-table div.attach-row div div a { text-decoration: none; } div.attach-table div.attach-row div div span { font-weight: normal; } div.ygrp-file-title { font-weight: bold; } /* end of attachment style */ --> <!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial; margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%; font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration: none; } -->
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>Ah, am I miss-reading the manual?
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>So, I don't worry about the current drawn with no PTT pressed?
>
>So I press the PTT then adjust for an increase of 50mA?
>
>Is this correct?
>
>Cheers.
>
>Rick.
>
>
>
>

3077. Re:: Re: [mkars80] PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-08-31 20:11:44 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3077

Great, I'll try that tomorrow. I don't think it'll solve the TX audio though.
Hmmm, I'll have to re-investigate that.

Cheers,
Rick.

3078. Re:: Re: [mkars80] PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-08-31 20:15:16 UTC
From: Steve
Topic: 3073 Message: 3078

That will probably cure poor and distorted audio.
Steve

Sent from my Sony Xperia™ smartphone

---- rick.g6uzt@gmail.com [mkars80] wrote ----

><!-- /* start of attachment style */ .ygrp-photo-title{ clear: both; font-size: smaller; height: 15px; overflow: hidden; text-align: center; width: 75px; } div.ygrp-photo{ background-position: center; background-repeat: no-repeat; background-color: white; border: 1px solid black; height: 62px; width: 62px; } div.photo-title a, div.photo-title a:active, div.photo-title a:hover, div.photo-title a:visited { text-decoration: none; } div.attach-table div.attach-row { clear: both; } div.attach-table div.attach-row div { float: left; /* margin: 2px;*/ } p { clear: both; padding: 15px 0 3px 0; overflow: hidden; } div.ygrp-file { width: 30px; valign: middle; } div.attach-table div.attach-row div div a { text-decoration: none; } div.attach-table div.attach-row div div span { font-weight: normal; } div.ygrp-file-title { font-weight: bold; } /* end of attachment style */ --> <!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial; margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%; font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration: none; } -->
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>I don't think it'll solve the TX audio though.
>
>Hmmm, I'll have to re-investigate that.
>
>
>Cheers,
>
>Rick.
>
>
>
>

3079. Re:: Re: [mkars80] PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-09-02 17:44:14 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3079

Right, adjustment carried out but I still sound like a Darlek according to the wife!). Bias was 240mA and it's now 290mA.

Any suggestions?

Cheers.
Rick.

3080. Re: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-09-30 15:28:57 UTC
From: JACK ISLES
Topic: 3073 Message: 3080

[Body unavailable in the source archive]

3081. Q1 dud?

Yahoo group: mkars80
Date: 2015-10-10 15:51:50 UTC
From: andyakashrek@...
Topic: 3081 Message: 3081

Many months ago I bought the MKARS80, swr meter and CW adapter, I have only just got around to building them. I have just finished the transceiver and have a question, I have no output power to a power meter feeding into a dummy load, I will check voltages at Q1 tomorrow to see what I have, is it possible to have a dud final transistor. The radio is boxed and Q1 mounted to chassis.
It receives Ok, the led lights on keying the mic but does not flicker when talking, my FT817ND can hear a steady carrier but at a constant S9. Bias set correctly.

3082. Re: [mkars80] Q1 dud?

Yahoo group: mkars80
Date: 2015-10-10 16:39:19 UTC
From: Steve Drury
Topic: 3081 Message: 3082

Hi Andy,

If the bias sets OK - that is a 50mA current rise as you rotate the preset resistor clockwise - it's drawing current so not faulty. The most likely cause is that one (or more) of the transformers has poor soldered connections. First do a DC voltage check on Q5 and Q9, each should have voltage on their collectors, if this doesn't reveal the problem check the connections on both of the mixer transformers. If you still have no success please contact me by a private email so I can get it going for you.

Regards,
Steve G6ALU

On 10/10/2015 16:51, andyakashrek@... [mkars80] wrote:
> Many months ago I bought the MKARS80, swr meter and CW adapter, I have only just got around to building them. I have just finished the transceiver and have a question, I have no output power to a power meter feeding into a dummy load, I will check voltages at Q1 tomorrow to see what I have, is it possible to have a dud final transistor. The radio is boxed and Q1 mounted to chassis.
> It receives Ok, the led lights on keying the mic but does not flicker when talking, my FT817ND can hear a steady carrier but at a constant S9. Bias set correctly.
>
>
> ------------------------------------
> Posted by: andyakashrek@...
> ------------------------------------
>
>
> ------------------------------------
>
> Yahoo Groups Links
>
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>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2015.0.6172 / Virus Database: 4435/10792 - Release Date: 10/10/15
>
>

3083. Re:: Re: [mkars80] Q1 dud?

Yahoo group: mkars80
Date: 2015-10-13 09:01:25 UTC
From: andyakashrek@...
Topic: 3081 Message: 3083

Hi Steve, I have voltage on both Q5 and Q9 which matches the voltages in the table printed in the instructions. Which are the mixer transformers? T4 and T6?
Andy.
M6YAO

3084. Re:: Re: [mkars80] Q1 dud?

Yahoo group: mkars80
Date: 2015-10-13 09:13:26 UTC
From: andyakashrek@...
Topic: 3081 Message: 3084

I have found a broken wire on T6. I will take it off and rebuild it.

3085. Re:: Re: [mkars80] Q1 dud?

Yahoo group: mkars80
Date: 2015-10-14 07:35:59 UTC
From: Steve
Topic: 3081 Message: 3085

Let me know if it was the broken wire...if you get stuck send it to me to get it going.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- andyakashrek@yahoo.co.uk [mkars80] wrote ----

>Hi Steve, I have voltage on both Q5 and Q9 which matches the voltages in the table printed in the instructions. Which are the mixer transformers? T4 and T6?
>Andy.
>M6YAO
>
>------------------------------------
>Posted by: andyakashrek@yahoo.co.uk
>------------------------------------
>
>
>------------------------------------
>
>Yahoo Groups Links
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>

3086. Re:: Re: [mkars80] PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-14 07:54:17 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3086

Bump. Any suggestions as to the cause of my audio trouble?

Rick.

3087. Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-15 03:02:44 UTC
From: n7eku@...
Topic: 3073 Message: 3087

Hi Rick,

Are you sure you have the CIO/BFO set correctly? How do other stations sound? Like a Dalek too?

I suspect that it is set incorrectly, not sure how the manual has you do it; you can try to set it by ear so other stations can be tuned in to sound natural. Another clue to a good setting is that the background band noise should sound "normal" ie. not super high pitched and not low pitched/hollow sounding. Also, strong CW stations tuned in should show just a very little bleed through on the opposite sideband.

Hope this helps,

73,

Mark.

3088. Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-15 05:51:04 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3088

Sorry Mark, you've misunderstood the problem. This is a transmit audio fault.
Receive is fine.

Rick.

3089. RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-15 08:43:03 UTC
From: Steve
Topic: 3073 Message: 3089

Rick, I don't remember now but did the bias adjust correctly? Does it produce around 5 watts and are you using a standard electret type microphone? I wouldn't describe TX audio as HIFI but often gets complements for its good quality..
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- rick.g6uzt@gmail.com [mkars80] wrote ----

><!-- /* start of attachment style */ .ygrp-photo-title{ clear: both; font-size: smaller; height: 15px; overflow: hidden; text-align: center; width: 75px; } div.ygrp-photo{ background-position: center; background-repeat: no-repeat; background-color: white; border: 1px solid black; height: 62px; width: 62px; } div.photo-title a, div.photo-title a:active, div.photo-title a:hover, div.photo-title a:visited { text-decoration: none; } div.attach-table div.attach-row { clear: both; } div.attach-table div.attach-row div { float: left; /* margin: 2px;*/ } p { clear: both; padding: 15px 0 3px 0; overflow: hidden; } div.ygrp-file { width: 30px; valign: middle; } div.attach-table div.attach-row div div a { text-decoration: none; } div.attach-table div.attach-row div div span { font-weight: normal; } div.ygrp-file-title { font-weight: bold; } /* end of attachment style */ --> <!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial; margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%; font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration: none; } -->
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>
>This is a transmit audio fault.
>
>Receive is fine.
>
>
>Rick.
>
>
>
>

3090. Re:: RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-17 19:36:35 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3090

Hi Steve. I've tried two different mikes now and both sound the same.
The best description is I sound like a Darlek!
The bias has now been set correctly and the radio produces 5w.
I'm open to any suggestions.
Rick.

3091. Re: : RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-17 20:57:19 UTC
From: Steve Drury
Topic: 3073 Message: 3091

Rick,

I don't know what it could be - have you any way of recording the audio
so I can hear it myself? Just a thought - are you using screened leads
for the microphone and is it in a standard case (one I supplied).

Steve

On 17/10/2015 20:36, rick.g6uzt@... [mkars80] wrote:
>
>
> Hi Steve.
> I've tried two different mikes now and both sound the same.
> The best description is I sound like a Darlek!
> The bias has now been set correctly and the radio produces 5w.
> I'm open to any suggestions.
> Rick.
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2015.0.6172 / Virus Database: 4447/10836 - Release Date: 10/17/15
>

3092. Re:: Re: : RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-18 10:24:42 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3092

Morning Steve. The case looks like the one supplied.
I didn't build this myself, it was made by an amateur who passed it onto a friend, who then passed it onto me!
I'll try and grab an .mp3 of the audio in the week.
Thanks for your input,
Rick.

3093. Re: : RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-18 12:57:37 UTC
From: <special@...>
Topic: 3073 Message: 3093

Hi All.

If this is a transmit fault I assume that you are hearing the poor quality audio by monitoring on another receiver.
Sounding like a dalek is a pretty good description of an SSB signal being received on an AM receiver.
If you are monitoring with another RX (and please don't be insulted as I am simply trying to think of a cause for your problem) are you monitoring on the correct sideband ie transmitting on LSB and monitoring on LSB and not monitoring on USB or AM?
If you are using LSB to receive then have you tried monitoring using a receiver with basically no antenna (or even with the receiver antenna input grounded) to ensure it's not a problem due to the MKARS80 overloading the receiver front end?
Has anyone commented on your audio off air other than the wife? How was she monitoring your transmissions?

Slim G4IPZ

----- Original Message -----
From: Steve Drury steve@... [mkars80]
To: mkars80@...
Sent: Saturday, October 17, 2015 9:57 PM
Subject: Re: : RE: [mkars80] Re:: PA Bias current adjustment.

Rick,

I don't know what it could be - have you any way of recording the audio so I can hear it myself? Just a thought - are you using screened leads for the microphone and is it in a standard case (one I supplied).

Steve

On 17/10/2015 20:36, rick.g6uzt@...m [mkars80] wrote:

Hi Steve.
I've tried two different mikes now and both sound the same.
The best description is I sound like a Darlek!
The bias has now been set correctly and the radio produces 5w.
I'm open to any suggestions.
Rick.
No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.6172 / Virus Database: 4447/10836 - Release Date: 10/17/15

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

3094. Re: : Re: : RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-18 15:05:31 UTC
From: Steve Drury
Topic: 3073 Message: 3094

OK Rick,

Have a read of Slim's email but if you don't have any success I will
have a look at it for the cost of postage (not cheap now!).

Steve

On 18/10/2015 11:24, rick.g6uzt@... [mkars80] wrote:
>
>
> Morning Steve.
> The case looks like the one supplied.
> I didn't build this myself, it was made by an amateur who passed it
> onto a friend, who then passed it onto me!
> I'll try and grab an .mp3 of the audio in the week.
> Thanks for your input,
> Rick.
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2015.0.6172 / Virus Database: 4447/10843 - Release Date: 10/18/15
>

3095. Re:: Re: : RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-18 17:56:40 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3095

Hi Slim. Test was done in workshop conditions (dummy load etc) on more than receiver.
It was also done over a distance with more than receiving station.
Cheers.
Rick.

3096. Re:: Re: : Re: : RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-18 18:07:19 UTC
From: rick.g6uzt@...
Topic: 3073 Message: 3096

Thanks for the offer Steve. I'll run it through the workshop again and have another go at it.
I'm pretty busy with other projects at the mo, so this was put back on the self.
I'll drag it back out.
The unfortunate thing about it is, I didn't build it, so you can never tell if it was just a simple build fault, or something else.
I have a good look round for bad joints etc, but nothing jumps out at me.
Thanks for all the suggestions chaps.

Rick.

3097. RE: [mkars80] Re:: PA Bias current adjustment.

Yahoo group: mkars80
Date: 2015-10-18 21:27:44 UTC
From: <special@...>
Topic: 3073 Message: 3097

Hi Rick.

I hope you sort it out and then post the result on the forum.
I've had 3 MKARS80 : One that I built myself and two others that I had to repair for people who'd looked like they'd soldered them with one of the old 'heat on a gas ring' irons.
I know Steve has asked for a recording of the way it sounds and I'd love to hear it too.
Perhaps you can post an audio file on the reflector. I know the reflector handles .wmv files.

I wait with interest

Slim G4IPZ

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

3098. ontvangen:Re:: Re: [mkars80] Q1 dud?

Yahoo group: mkars80
Date: 2015-10-24 16:18:25 UTC
From: G.Vroegh
Topic: 3098 Message: 3098

Dit is een leesbevestiging, G.Vroegh[rvroegh@hetnet.nl] heeft het bericht gelezen op 2015-10-24, 18:18:25.

3099. Unstable frequency/vfo

Yahoo group: mkars80
Date: 2016-02-06 09:27:47 UTC
From: oh7lbj@...
Topic: 3099 Message: 3099

Hello all,

I finished my v1.3 MKARS80 few weeks ago, added a fan and power switch and finally made a decent antenna for it last week.

My initial goal is to make a BBS/Node/digital-something station that will be portable/mobile and fit into a tool case or briefcase/etc. MKARS80 seemed to be perfect for this use.

However, I noticed the frequency tends to crawl or jump. It is not stable at all.

I read from the manual, that it will take some time before temperature inside the case (recommended case) will be stabilised and hence for first 30 mins or so the vfo will be unstable.

Unfortunately, it looks like it still, after a long time period, is unstable.

Last night I left my MKARS80 on after some 1-2 hours of testing it. I set RF 3593kHz (+/- 10Hz) when I left and this morning the frequency was about 3595kHz give or take some. So the drift was about 2kHz during the night!

What can I do? Could it be caused by the fan? It is quite powerful little fan (maybe 40mm) and placed quite close to the FET at the side of the case.

I have tried three different voltages to run it, 12V, 13.5V and 15V, no affect to the frequency drift. 15V gives me nice 7-8W of xmit power though :)

Like it is now, it will not be ok for my project as it will be left alone for long periods.

Thanks in advance for all help,

73de OH7LBJ / Janne

3100. Re: [mkars80] Unstable frequency/vfo

Yahoo group: mkars80
Date: 2016-02-06 09:49:41 UTC
From: Sigurd Veland
Topic: 3099 Message: 3100

Hi.
I have built two of this very nice qrp transceivers and used them a lot. I had a small problem with stability at the beginning with the first one. I did not notice the + sign in the display was missing. When this sign is presented, the frequence is locked an should be stabile.
To be able to lock the frq. I did som adjusting on the occillator limits.
So try to do some tuning to be shure the occilator work within the actual frq.band and check the level is high enough. I don't know if this will help you, but check and be sure you see the +sign in your display.
73 de LB5MA. Sigurd

Sendt fra min iPad

> Den 6. feb. 2016 kl. 10.27 skrev oh7lbj@... [mkars80] <mkars80@...>:
>
> Hello all,
>
>
>
> I finished my v1.3 MKARS80 few weeks ago, added a fan and power switch and finally made a decent antenna for it last week.
>
>
>
> My initial goal is to make a BBS/Node/digital-something station that will be portable/mobile and fit into a tool case or briefcase/etc. MKARS80 seemed to be perfect for this use.
>
>
>
> However, I noticed the frequency tends to crawl or jump. It is not stable at all.
>
>
>
> I read from the manual, that it will take some time before temperature inside the case (recommended case) will be stabilised and hence for first 30 mins or so the vfo will be unstable.
>
>
>
> Unfortunately, it looks like it still, after a long time period, is unstable.
>
>
>
> Last night I left my MKARS80 on after some 1-2 hours of testing it. I set RF 3593kHz (+/-

10Hz) when I left and this morning the frequency was about 3595kHz give or take some. So the drift was about 2kHz during the night!
>
>
>
> What can I do? Could it be caused by the fan? It is quite powerful little fan (maybe 40mm) and placed quite close to the FET at the side of the case.
>
>
>
> I have tried three different voltages to run it, 12V, 13.5V and 15V, no affect to the frequency drift. 15V gives me nice 7-8W of xmit power though :)
>
>
>
> Like it is now, it will not be ok for my project as it will be left alone for long periods.
>
>
>
> Thanks in advance for all help,
>
>
>
> 73de OH7LBJ / Janne
>
>

3101. Re:: Re: [mkars80] Unstable frequency/vfo

Yahoo group: mkars80
Date: 2016-02-06 10:12:13 UTC
From: johncronhelm@...
Topic: 3099 Message: 3101

I am not sure why you would add a fan. But pay attention to the +/- to make sure it is stable to start.
John, vo1jcc.

3102. Re: : Re: [mkars80] Unstable frequency/vfo

Yahoo group: mkars80
Date: 2016-02-06 11:21:49 UTC
From: Steve Bell
Topic: 3099 Message: 3102

> On 6 Feb 2016, at 10:12, johncronhelm@... [mkars80] <mkars80@yahoogroups.co.uk> wrote:
>
> I am not sure why you would add a fan. But pay attention to the +/- to make sure it is stable to start.
> John, vo1jcc.
>
>
> Posted by: johncronhelm@... <mailto:johncronhelm@...rs.comI>
I would only consider adding a fan it it was to be used for digital modes.

Steve M0SVB

3103. Re:: Unstable frequency/vfo

Yahoo group: mkars80
Date: 2016-02-07 08:12:55 UTC
From: oh7lbj@...
Topic: 3099 Message: 3103

I added the fan, as it is recommended for digital modes. This will be basically used only for digital modes.

And yes, I have been checking the appearance of the plus sign. I will keep investigating this, yesterday it held the frequency nicely for some hours during the day.

If necessary, I will change the VFO to DDS VFO or something.

3104. Re:: Unstable frequency/vfo

Yahoo group: mkars80
Date: 2016-02-24 13:58:19 UTC
From: marko.kosir1@...
Topic: 3099 Message: 3104

Hi to all,

Google AA7EE article (The DSB80 – A Direct Conversion DSB Transceiver for 80M By G4JST and G3WPO – First Stage Of Buildingstable VFO) and you could find similar VFO solution as MKARS has, but using JFETs, which are much more temperature stable than bipolar.
I did modification in this way and I have less drifting problems after some time.

But you have count also other facts for stability (CRYSTAL SETS TO SIDEBAND
© Frank W. Harris 2010, REV 12 Chapter 10 Variable Frequency Oscillators (VFOs))

I also noticed that Q13 heats little bit too much. I am working on 13,5V and current is under limits.

Here is enclosure for which I am waiting for: Aluminum enclosure power shell box 152(5.98")X44(1.73")X130(5.11")mm DIY black http://www.ebay.de/itm/272143606807?_trksid=p2060353.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT

http://www.ebay.de/itm/272143606807?_trksid=p2060353.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT

Aluminum enclosure power shell box 152(5.98")X44(1.... http://www.ebay.de/itm/272143606807?_trksid=p2060353.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT Aluminum enclosure power shell box 152(5.98")X44(1.73")X130(5.11")mm DIY black in Handys & Kommunikation, Funktechnik, Teile & Zubehör | eBay

View on www.ebay.de http://www.ebay.de/itm/272143606807?_trksid=p2060353.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT
Preview by Yahoo

73, Marko, S54AM

3105. New file uploaded to mkars80

Yahoo group: mkars80
Date: 2016-02-24 18:25:21 UTC
From: mkars80@...
Topic: 469 Message: 3105

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the mkars80
group.

File : /S54AM/VFOmodsS54AM.jpg
Uploaded by : s54am <marko.kosir1@...>
Description : Modifications based on AA7EE articles. I implemented it and also other my solutions based on tests except I didn`t replace R43 with RFC as is described.

You can access this file at the URL:
https://uk.groups.yahoo.com/neo/groups/mkars80/files/S54AM/VFOmodsS54AM.jpg

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_GB&id=SLN15398

Regards,

s54am <marko.kosir1@...>

3106. For Sale

Yahoo group: mkars80
Date: 2016-05-21 02:29:01 UTC
From: rogerled@...
Topic: 3106 Message: 3106

MKARS80. Works and looks good.
$120 shipped conus, possible trade for other QRP
73 Roger K7EZ
rogerled@aol.com

3107. Help request with cheap amplifier kit

Yahoo group: mkars80
Date: 2016-06-08 10:19:43 UTC
From: Matty Cunningham
Topic: 3107 Message: 3107

Hi,

I have recently purchased one of these kits from China, to hopefully get a few more watts out of my MKARS80 kit:-

http://www.banggood.com/DIY-45W-SSB-HF-Linear-Power-Amplifier-Amateur-Radio-Transceiver-Shortwave-Radio-Development-Board-Kit-p-1018834.html

There's a good translation and English version of the manual available here:-
http://www.caarc.ca/wp-caarc/wp-content/uploads/2016/03/Banggood-IRF-530-PA-Instructions-V1.4-.pdf

This requires 1-5mW drive to give 40 or so watts output – does anyone have any suggestions on how I can drive this?

I could use a resistor network to drop the output from the MKARS80 to a suitable level, but if I'm going to operate portable – it seems a backward step taking around 5W and having to dissipate this to a level suitable for the amplifier and will shorten battery life.

Would it be an idea to bypass/remove the IRF510, or take the output from around T1 on the MKARS80 to drive the amplifier, or would it be worth me looking at driving the amplifier where the 2SC1971 is on the amplifier board?

I'm note familiar with impedance matching for transistors, so any advice on how to help hook up my MKARS80 to the amp will be much appreciated.

I understand I'll need a way to switch the amp in/out of circuit and will need filtering on the output stages.

Many thanks

Matty

MD0MAN

3108. RE: [mkars80] Help request with cheap amplifier kit

Yahoo group: mkars80
Date: 2016-06-08 15:31:05 UTC
From: Clive Reynolds
Topic: 3107 Message: 3108

There’s been some discussion about this amplifier on the RSGB Tech forum recently that has some comments and concerns about this amplifier. I’ve copied one of the posts below.

As far as your specific query is concerned, the simplest way would be to put an attenuator on the input SMA or between the input socket and C12. You need 26dB, i.e. 400:1. Made from E12 series resistors in the classic Pi format you’ll need 470R + 27R in series to make R4 and two lots of 47R + 8.2R in series to make R3 & R5.

73 Clive

G3GJA

Hi Ian.

I have one of these and its actually quite poor.

I had to rewind most transformers as its gain dropped very sharply under 2MHz and I needed it to work down to 1.8MHz.

The second stage transistor uses an obsolete, CB PA transistor. The one supplied had been previously used and measured low gain.

There is no bias temperature stabilisation on the output pair. The quiescent current varies excessively with temperature.

Apart from the above, it just about works..:-)

Frank, g0gsr

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Registered in England No. 3003479
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[Non-text portions of this message have been removed]

3109. RE: [mkars80] Help request with cheap amplifier kit

Yahoo group: mkars80
Date: 2016-06-08 21:56:14 UTC
From: Steve G6ALU
Topic: 3107 Message: 3109

Hi, the easiest way of driving the amp is to remove the output transistor. Measure the signal across R1 and using the measurement build a suitable attenuator to drive the PA. Its probably possible to use R1 as part of the attenuator.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "'Clive Reynolds' clive@hesh.co.uk [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 08/06/2016 16:31 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: RE: [mkars80] Help request with cheap amplifier kit

There’s been some discussion about this amplifier on the RSGB Tech forum recently that has some comments and concerns about this amplifier. I’ve copied one of the posts below.

As far as your specific query is concerned, the simplest way would be to put an attenuator on the input SMA or between the input socket and C12. You need 26dB, i.e. 400:1. Made from E12 series resistors in the classic Pi format you’ll need 470R + 27R in series to make R4 and two lots of 47R + 8.2R in series to make R3 & R5.

73 Clive

G3GJA

Hi Ian.

I have one of these and its actually quite poor.

I had to rewind most transformers as its gain dropped very sharply under 2MHz and I needed it to work down to 1.8MHz.

The second stage transistor uses an obsolete, CB PA transistor. The one supplied had been previously used and measured low gain.

There is no bias temperature stabilisation on the output pair. The quiescent current varies excessively with temperature.

Apart from the above, it just about works..:-)

Frank, g0gsr

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[Non-text portions of this message have been removed]

Posted by: "Clive Reynolds" <clive@hesh.co.uk>

Yahoo Groups Links

3110. Display problems

Yahoo group: mkars80
Date: 2016-06-09 13:13:10 UTC
From: sm2byw@...
Topic: 3110 Message: 3110

My Mkars80 working very well, but the display is now showing no figures, only bars.
Can someone give me tips where to find the problem? 73 SM2BYW

3111. Re: [mkars80] Display problems

Yahoo group: mkars80
Date: 2016-06-09 13:52:18 UTC
From: Dave
Topic: 3110 Message: 3111

Reduce the backlight display adjustment pot until you get the correct
display.
Dave

On 09/06/2016 14:13, sm2byw@... [mkars80] wrote:
>
> My Mkars80 working very well, but the display is now showing no
> figures, only bars.
>
> Can someone give me tips where to find the problem? 73 SM2BYW
>
>

3112. Not any problems

Yahoo group: mkars80
Date: 2016-06-09 14:19:19 UTC
From: sm2byw@...
Topic: 3112 Message: 3112

Thanks Dave for the info, now the display working well again ! 73 Jimmy/SM2BYW

3113. Re: [mkars80] Not any problems

Yahoo group: mkars80
Date: 2016-06-09 14:24:13 UTC
From: Dave
Topic: 3112 Message: 3113

Great stuff, pleased it worked for you
Regards
Dave
G4JBE

On 09/06/2016 15:19, sm2byw@... [mkars80] wrote:
>
> Thanks Dave for the info, now the display working well again ! 73
> Jimmy/SM2BYW
>
>

3114. Re: Help request with cheap amplifier kit

Yahoo group: mkars80
Date: 2016-06-10 18:58:26 UTC
From: Matty Cunningham
Topic: 3107 Message: 3114

Thanks to all for the replies.

I will build the PA as is, some filtering and see how it is with some test equipment and take it from there.

My idea was to use it for portable operation, rather than heating up a bunch of resistors to give the attenuation required, I'll try Steve's suggestion
as this should give me a better battery operating time.

Kind regards

Matty

MD0MAN

3116. RE: [mkars80] wiring links

Yahoo group: mkars80
Date: 2016-07-04 20:20:21 UTC
From: Steve
Topic: 3115 Message: 3116

John, there are no links that have to be made, perhaps these are tracks on the top side of the PCB. Have a look through a magnifying glass, it may be difficult to see as it will be covered by solder resist (green paint).

Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- jpowell700@yahoo.com [mkars80] wrote ----

>I have nearly completed my pcb (ver 3) and note that there are some locations that appear to be for wiring links,
> one near c18 and the other 3 near the relay. I can find no reference to links in the manual and several photos of completed boards appear to show these locations unfilled, They appear to have very little ''land'' to solder onto. I will check through the wiring diagram but in the meantime if anyone can explain what they are it would be a great help, I expect I am missing the obvious. John
>

3119. Re: [mkars80] bia setting

Yahoo group: mkars80
Date: 2016-07-07 00:50:14 UTC
From: Steve G6ALU
Topic: 3118 Message: 3119

John,
Have you adjusted the BFO for 10.0MHz? I've had instances that the oscillator frequency passes directly through the filter pass band and can cause instability, this disappears once the BFO is set correctly. First mixer ballance also plays a part here.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "jpowell700@yahoo.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 06/07/2016 15:18 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] bia setting

I have completed my kit up to the point of setting R2 bias, it receives very well so there does not seem to any problem there. I do not have a mike as yet but have wired up a microswitch for ptt onto the mike plug and followed instructions for setting up bias (Page 13). The keyed bias is 230mA but any attempt to raise it to approx 285mA as yet unsuccessful, there is not variatation even after about a 1/4 turn of the trimmer then the current raises suddenly to about 375mA, turning back the resistor drops the current back to 230mA but on releasing the ptt and pressing it again the current is back up 350mA plus. While the is happening there is a very faint fluttering sound from the speaker which I assume is oscillation feedback, the problem is there whether the unit is cased or uncased. It almost seems it there could be a flat spot on the trimmer but thats just a guess. Advice gratefully received. John

3121. Re:: Re: [mkars80] bia setting

Yahoo group: mkars80
Date: 2016-07-07 14:06:18 UTC
From: Steve
Topic: 3118 Message: 3121

John,
Have you got it in the case yet and if so is it the standard one?
Steve

Sent from my Sony Xperia™ smartphone

---- jpowell700@yahoo.com [mkars80] wrote ----

>Hi Steve thanks for getting back so promptly, tried your ideas. BFO is correct at 10 Mhz and tried to check carrier balance on scope but this does not seem to make any difference. Just to satisfy my thoughts I changed R2 but it was same result so I put the original back in, I also changed the 510 with same result. It is possible to raise the current to 285mA from 235mA on R2 but as soon as the ptt is released and pressed again the current has risen back to approx 750mA on my avo. There does not appear to be any gradual adjustment on R2, it seems that it takes about half a turn before any current raise to 285mA and then as I said once the ptt is released and re-pressed that value that was set has gone. I have checked the componants in the bias chain to the PA and these are correct. No doubt something I have overlooked ,I will set it aside for a few days and check again with renewed energy HiHi, regards John

3122. Re:: Re: [mkars80] bia setting

Yahoo group: mkars80
Date: 2016-07-07 17:23:20 UTC
From: andyakashrek@...
Topic: 3118 Message: 3122

Just a thought, I note that you say that it receives well, are you using a dummy load when setting the bias as per the instructions?
Andy.

3125. Re:: Re: [mkars80] bia setting

Yahoo group: mkars80
Date: 2016-07-07 19:39:03 UTC
From: Steve
Topic: 3118 Message: 3125

The 800 Ohms is probably Ok so don't worry about that.
Steve

Sent from my Sony Xperia™ smartphone

---- jpowell700@yahoo.com [mkars80] wrote ----

>yes it is the standard one bought with the kit, I have tried it in and out of the enclosure with the same results.
> the only thing that differs from my first post is that on the initial test (page11) I did not get 1K6 between supply and ground, only 800 ohms, sorry I forgot this and it may well be indicative of the problem. The receiver is really nice and the display , led etc works fine. Just in the process of moding a multimedia mic that came today. John

3127. On the air

Yahoo group: mkars80
Date: 2016-07-12 11:53:35 UTC
From: jpowell700@...
Topic: 3127 Message: 3127

My radio finished except for lettering , I found an old Philips mic-removed all the circuitry and took the insert from a multimedia mic and fitted that. I had several contacts over the weekend into G and GI with good reports. Kit is exceptional value for money and I would recommend to anyone thinking of buying. John GW4LPB.

3128. RE: [mkars80] On the air

Yahoo group: mkars80
Date: 2016-07-12 17:44:57 UTC
From: Steve
Topic: 3127 Message: 3128

Thanks for the comments John.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- jpowell700@yahoo.com [mkars80] wrote ----

>My radio finished except for lettering , I found an old Philips mic-removed all the circuitry and took the insert from a multimedia mic and fitted that. I had several contacts over the weekend into G and GI with good reports. Kit is exceptional value for money and I would recommend to anyone thinking of buying. John GW4LPB.
>
>

3129. Freq Instability

Yahoo group: mkars80
Date: 2016-09-13 19:30:10 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3129

Hi,

Just completed my mkars80 and have enjoyed the build very much. On completion at 3am Saturday morning I made several contacts including Kazakhstan, Russia and Canada! Over the last few days I've had several long inter-G contacts without any problems.

This evening I made a few tweaks to the mixer balance and BFO frequency and powered it up. For some reason it seems the huff and puff no longer works. I have re-tweaked the earlier adjustments but can't seem to get any improvement. Any help getting this fantastic little radio back on the air would be much appreciated.

Tim

3130. RE: [mkars80] Freq Instability

Yahoo group: mkars80
Date: 2016-09-13 19:48:39 UTC
From: Steve
Topic: 3129 Message: 3130

Hi Tim. First what is the display telling you? When in lock you get a bar which moves either left or right depending on the correction it's applying. If it displays a"U" then it's unlocked.
Is the micro fitted into its socket Correctly.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>Hi,
>
>
> Just completed my mkars80 and have enjoyed the build very much. On completion at 3am Saturday morning I made several contacts including Kazakhstan, Russia and Canada! Over the last few days I've had several long inter-G contacts without any problems.
>
>
> This evening I made a few tweaks to the mixer balance and BFO frequency and powered it up. For some reason it seems the huff and puff no longer works. I have re-tweaked the earlier adjustments but can't seem to get any improvement. Any help getting this fantastic little radio back on the air would be much appreciated.
>
>
> Tim

3131. Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-09-13 20:43:42 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3131

Hi Steve. Thanks for getting back. It would briefly lock then stay on U for most of the time. Previously I could watch the bar and tweak the tuning back to centre. Having said all that, I put it over a fan for a while to be sure it was cool and I've just had a 20 minute qso! I've just given the micro a bit of a push and it did move a tad. If you happen to be near a radio I'm on 3.783.

3132. RE: [mkars80] Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-09-14 19:24:09 UTC
From: Steve
Topic: 3129 Message: 3132

I've not been on 80 in a while, we used to have a Sunday morning net but we were often flattened by QRO stations onbthe QRP frequencies.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>Hi Steve. Thanks for getting back. It would briefly lock then stay on U for most of the time. Previously I could watch the bar and tweak the tuning back to centre. Having said all that, I put it over a fan for a while to be sure it was cool and I've just had a 20 minute qso! I've just given the micro a bit of a push and it did move a tad. If you happen to be near a radio I'm on 3.783.

3133. Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-09-14 20:55:10 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3133

That's a shame. I've had that happen a couple of times but according to most reports I'm putting out a pretty good signal. A few people have said I don't have much top end although there's plenty of mid and bass. I've tried a few different mic elements but still get those reports. Is there anything else I could try to get more treble? I've also noticed I can hear my own voice over the speaker, is that an issue or normal?

3134. RE: [mkars80] Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-09-14 21:29:57 UTC
From: Steve
Topic: 3129 Message: 3134

Hearing your own voice is quite normal, muting isn't perfect in transmit. Have you checked the BFO frequency with a counter, adjust for 10MHz. If no improvement ask me for another set of crystals.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>That's a shame. I've had that happen a couple of times but according to most reports I'm putting out a pretty good signal. A few people have said I don't have much top end although there's plenty of mid and bass. I've tried a few different mic elements but still get those reports. Is there anything else I could try to get more treble? I've also noticed I can hear my own voice over the speaker, is that an issue or normal?

3135. Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-09-17 14:57:11 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3135

Thanks Steve. I've checked the BFO freq and it sounds the same. It may just be how they normally sound, I've never heard another one. A friend built one some time ago, he's going to fire it up and give me a shout so I can hear what his sounds like. The frequency instability seems to have gone for the most part. It has done it again but it went away when I gave the tuning a good twist.

3136. Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-05 00:48:49 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3136

I've been using the MKARS80 for a while now and have had more great DX contacts into the Caribbean and Western Sahara.

I've sussed out that the frequency instability only happens between 3.774.100 and 3.775.300. Is there any reason why this might be happening?
Thanks.

Tim

3137. RE: [mkars80] Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-05 09:24:58 UTC
From: Steve
Topic: 3129 Message: 3137

Tim, first congratulations on the contacts...what antenna have you?

I think you have stumbled across a bug in the huff and puff code, o thought we had solved this a long while back. If it's the same one the huff and puff will only hold drift in one direction.
I will try and replicate it my end.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>I've been using the MKARS80 for a while now and have had more great DX contacts into the Caribbean and Western Sahara.
>
> I've sussed out that the frequency instability only happens between 3.774.100 and 3.775.300. Is there any reason why this might be happening?
> Thanks.
>
>
> Tim

3138. Re:: RE: [mkars80] Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-05 16:44:45 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3138

Hi Steve, thanks for your reply. My antenna is just a home made double bazooka type dipole. I doubt the fact it's a double bazooka makes it any better than a standard dipole. The entire length is up about 12m which probably does help a bit.

I should maybe have mentioned earlier that this kit was originally purchased in 2009 so may be running old code. I mentioned to a friend I was waiting for the kits to be back in stock. He said I could buy his un-built one for the original price, so I did.

3139. Re:: RE: [mkars80] Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-05 17:54:09 UTC
From: Steve
Topic: 3129 Message: 3139

Tim, when you turn it on what version comes up in rhe display?
Steve

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>Hi Steve, thanks for your reply. My antenna is just a home made double bazooka type dipole. I doubt the fact it's a double bazooka makes it any better than a standard dipole. The entire length is up about 12m which probably does help a bit.
>
> I should maybe have mentioned earlier that this kit was originally purchased in 2009 so may be running old code. I mentioned to a friend I was waiting for the kits to be back in stock. He said I could buy his un-built one for the original price, so I did.

3140. Re:: RE: [mkars80] Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-06 01:40:34 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3140

MKARS80 V2.4

3141. Re:: RE: [mkars80] Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-06 06:27:10 UTC
From: Steve
Topic: 3129 Message: 3141

That is the latest version. Give me a few days and I will try and replicate it here.
Regards,
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>MKARS80 V2.4

3142. Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-20 12:11:03 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3142

DX contact on my mkars80.....

https://youtu.be/NXo0Wjd1Hfg https://youtu.be/NXo0Wjd1Hfg

3143. RE: [mkars80] Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-20 16:02:08 UTC
From: Steve
Topic: 3129 Message: 3143

Well done, amazing what you can do with 5W.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>DX contact on my mkars80.....
>
> https://youtu.be/NXo0Wjd1Hfg https://youtu.be/NXo0Wjd1Hfg
>

3144. Re:: Freq Instability

Yahoo group: mkars80
Date: 2016-10-21 00:08:02 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3129 Message: 3144

The lovely quiet receive on the radio helps too. I'd buy this kit just as a receiver!

3145. Backlit Display

Yahoo group: mkars80
Date: 2016-10-30 23:41:34 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3145 Message: 3145

Is it ok to run a backlit display from the standard screens power supply?
Thanks

Tim

3146. RE: [mkars80] Backlit Display

Yahoo group: mkars80
Date: 2016-10-31 06:37:07 UTC
From: Steve
Topic: 3145 Message: 3146

Hi Tim, I normally run it with series resistors off the 12V supply. Try 2 x 220 Ohms in series. You don't want to heat up the 5V regulator or you could get frequency drift.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>Is it ok to run a backlit display from the standard screens power supply?
> Thanks
>
>
> Tim

3147. Re:: Backlit Display

Yahoo group: mkars80
Date: 2016-10-31 09:14:43 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3145 Message: 3147

Thanks Steve I'll do that. Whats the best point to take it from? I'm adding a power switch too so maybe after that?

3148. Re: [mkars80] Re:: Backlit Display

Yahoo group: mkars80
Date: 2016-10-31 12:55:12 UTC
From: steve@...
Topic: 3145 Message: 3148

Yes after the power switch.... chase the track through and take it from
a convenient point - note it won't fit in a standard case.

Regards,
Steve Drury

On 2016-10-31 09:14,
mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@... [mkars80] wrote:
> Thanks Steve I'll do that. Whats the best point to take it from? I'm
> adding a power switch too so maybe after that?
>
>
>
> Links:
> ------
> [1]
> https://uk.groups.yahoo.com/neo/groups/mkars80/info;_ylc=X3oDMTJmbTVraTRvBF9TAzk3NDkwNTA
1BGdycElkAzIwMTU0Mzc0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzE0Nzc5MDUyO
DQ-
> [2]
> https://uk.groups.yahoo.com/neo;_ylc=X3oDMTJlYXZ1N3R0BF9TAzk3NDkwNTAzBGdycElkAzIwMTU0Mzc
0BGdycHNwSWQDMTY5MDA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTQ3NzkwNTI4NA--
> [3] https://info.yahoo.com/privacy/uk/yahoo/groups/details.html
> [4] https://info.yahoo.com/legal/uk/yahoo/utos/en-gb/details.html

3149. Re:: Backlit Display

Yahoo group: mkars80
Date: 2016-10-31 16:30:47 UTC
From: mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@...
Topic: 3145 Message: 3149

Got it, thanks. Should I run the whole display off the 12v supply or just the backlight?

My original plan was to change the fine tuning pot for a 10 turn one. Turns out that wouldn't fit in the standard case either so since I had to change the case I thought I may as well put a backlit screen in too. I read in another post you recommend rotating the polyvaricon and extending the shaft over using varicap tuning. Are you still of the same opinion?

3150. RE: [mkars80] Re:: Backlit Display

Yahoo group: mkars80
Date: 2016-10-31 18:04:26 UTC
From: Steve
Topic: 3145 Message: 3150

Only drive the backlight LEDs with series resistors from 12V. You will destroy the display if you drive the logic side in the same way. I liked the rotated Polyvaricon idea but not tried it myself.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- mtazscj5i6tttbikdlt2oqd7cwmv6u2iluxuft6l@yahoo.co.uk [mkars80] wrote ----

>Got it, thanks. Should I run the whole display off the 12v supply or just the backlight?
>
>
>My original plan was to change the fine tuning pot for a 10 turn one. Turns out that wouldn't fit in the standard case either so since I had to change the case I thought I may as well put a backlit screen in too. I read in another post you recommend rotating the polyvaricon and extending the shaft over using varicap tuning. Are you still of the same opinion?

3151. Any kits due ?

Yahoo group: mkars80
Date: 2016-12-19 10:28:05 UTC
From: tasmod@...
Topic: 3151 Message: 3151

I see the website says kits out of stock, are any more kits being made and if so when are they due ?

Thanks

Rob G4NQX

3152. RE: [mkars80] Any kits due ?

Yahoo group: mkars80
Date: 2016-12-19 11:57:16 UTC
From: Steve
Topic: 3151 Message: 3152

Hi Rob, wont be until after christmas, probably towards the end of January.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- tasmod@googlemail.com [mkars80] wrote ----

>I see the website says kits out of stock, are any more kits being made and if so when are they due ?
>
>Thanks
>
>Rob G4NQX
>
>
>

3153. Re:: RE: [mkars80] Any kits due ?

Yahoo group: mkars80
Date: 2016-12-19 17:46:42 UTC
From: tasmod@...
Topic: 3151 Message: 3153

Thanks Steve.

Rob

3154. Pic Osc

Yahoo group: mkars80
Date: 2016-12-19 21:38:32 UTC
From: tasmod@...
Topic: 3154 Message: 3154

Steve,

I wanted to do some bench testing of the Pic. Due to the code using an external osc input I needed to use a 10MHz crystal to generate the Pic clock.
I altered the asm code to XT osc but it just wouldn't run on 10MHz so I tried HS. This worked but it just displayed the welcome message and then did a restart and appeared 'flakey'.
I'm very rusty on asm now as I've spent so long on Arduino. Is there something I'm missing, a bit setting or such ?
I have the crystal on pins 16 and 15 with two 22pF to ground. There is 10MHz on the scope so it's clocking OK.

Rob G4NQX

3155. Re:: Pic Osc

Yahoo group: mkars80
Date: 2016-12-20 21:06:06 UTC
From: tasmod@...
Topic: 3154 Message: 3155

Sorted, not a software problem. A decoupler cap leg had come of the board and there was noise on the supply.

Rob.

3156. RE: [mkars80] Re:: Pic Osc

Yahoo group: mkars80
Date: 2016-12-20 21:18:10 UTC
From: Steve
Topic: 3154 Message: 3156

Sorry Rob, didnt have time to look in to it.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- tasmod@googlemail.com [mkars80] wrote ----

>Sorted, not a software problem. A decoupler cap leg had come of the board and there was noise on the supply.
>
>Rob.

3157. Working with the torrids

Yahoo group: mkars80
Date: 2017-03-04 03:06:24 UTC
From: Mike Lichtman
Topic: 3157 Message: 3157

I am currently putting together a MKARS80 and would like to know any hints for removing the enamel. I tried a flame from a lighter and then light sanding but it doesn’t seem the best way. Can someone share from their experience and also hints on mounting the toroids. The # 38 wire is not kind to older eyes or much fussing with. 73 Mike KF6KXG

3158. Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-04 07:54:32 UTC
From: les.au49@...
Topic: 3157 Message: 3158

Hello Mike,

My experience with toroids has been with heavier gauge wire.

To mount my toroids I use a cotton-wool bud (the plastic stick, cut to somewhat longer than the height of the toroid. Then I fix two buds to the toroid with cotton and nail-polish. When finished the toroid former will stand on the two plastic "feet". I use the "feet" to mount the toroid on the board.

The method I use for stripping the enamel from the wire is like yours - but I use finger-nail emery boards. I use a finger to hold the wire against the emery board. As I said before, I didn't use gauge 38 wire - perhaps only 0.25mm. (Maybe #30 or 32. I don't know).

Les

3159. Re: [mkars80] Working with the torrids

Yahoo group: mkars80
Date: 2017-03-04 08:05:38 UTC
From: Steve Drury
Topic: 3157 Message: 3159

Best way is to use a very hot soldering iron - I melt a blob of solder on to a heat resitant surface and while the iron is still heating the blob pass the end of the wire into it. For heavy gauge (22 SWG) I crush it in the serated part of some universal pliers (the gripping part) first.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "Mike Lichtman mlicht103@aol.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 04/03/2017 03:06 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Working with the torrids

I am currently putting together a MKARS80 and would like to know any hints for removing the enamel. I tried a flame from a lighter and then light sanding but it doesn’t seem the best way. Can someone share from their experience and also hints on mounting the toroids. The # 38 wire is not kind to older eyes or much fussing with. 73 Mike KF6KXG

Posted by: Mike Lichtman <mlicht103@aol.com>

Yahoo Groups Links

3160. Re: [mkars80] Working with the torrids

Yahoo group: mkars80
Date: 2017-03-04 15:40:22 UTC
From: mlicht103
Topic: 3157 Message: 3160

Thanks Steve. Mike

Sent from my iPhone

> On Mar 4, 2017, at 12:05 AM, Steve Drury steve@... [mkars80] <mkars80@...> wrote:
>
> Best way is to use a very hot soldering iron - I melt a blob of solder on to a heat resitant surface and while the iron is still heating the blob pass the end of the wire into it. For heavy gauge (22 SWG) I crush it in the serated part of some universal pliers (the gripping part) first.
> Steve G6ALU
>
>
>
>
> Sent from Samsung tablet
>
>
>
> -------- Original message --------
> From: "Mike Lichtman mlicht103@... [mkars80]" <mkars80@...>
> Date: 04/03/2017 03:06 (GMT+00:00)
> To: mkars80@...
> Subject: [mkars80] Working with the torrids
>
>
> I am currently putting together a MKARS80 and would like to know any hints for removing the enamel. I tried a flame from a lighter and then light sanding but it doesn’t seem the best way. Can someone share from their experience and also hints on mounting the toroids. The # 38 wire is not kind to older eyes or much fussing with. 73 Mike KF6KXG
>
>
> ------------------------------------
> Posted by: Mike Lichtman <mlicht103@...>
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> Yahoo Groups Links
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3161. Re: [mkars80] Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-04 19:28:58 UTC
From: Mike Lichtman
Topic: 3157 Message: 3161

Les,
Thank you for the idea. 73 Mike
> On Mar 3, 2017, at 11:54 PM, les.au49@... [mkars80] <mkars80@...> wrote:
>
> Hello Mike,
>
> My experience with toroids has been with heavier gauge wire.
>
> To mount my toroids I use a cotton-wool bud (the plastic stick, cut to somewhat longer than the height of the toroid. Then I fix two buds to the toroid with cotton and nail-polish. When finished the toroid former will stand on the two plastic "feet". I use the "feet" to mount the toroid on the board.
>
> The method I use for stripping the enamel from the wire is like yours - but I use finger-nail emery boards. I use a finger to hold the wire against the emery board. As I said before, I didn't use gauge 38 wire - perhaps only 0.25mm. (Maybe #30 or 32. I don't know).
>
> Les
>
>

3162. Re: [mkars80] Working with the torrids

Yahoo group: mkars80
Date: 2017-03-04 19:30:18 UTC
From: Mike Lichtman
Topic: 3157 Message: 3162

Thanks Steve. This is the smallest wire I have used. 73 Mike
> On Mar 4, 2017, at 12:05 AM, Steve Drury steve@... [mkars80] <mkars80@yahoogroups.co.uk> wrote:
>
>
> Best way is to use a very hot soldering iron - I melt a blob of solder on to a heat resitant surface and while the iron is still heating the blob pass the end of the wire into it. For heavy gauge (22 SWG) I crush it in the serated part of some universal pliers (the gripping part) first.
> Steve G6ALU
>
>
>
>
> Sent from Samsung tablet
>
>
>
> -------- Original message --------
> From: "Mike Lichtman mlicht103@aol.com <mailto:mlicht103@...> [mkars80]" <mkars80@... <mailto:mkars80@...>>
> Date: 04/03/2017 03:06 (GMT+00:00)
> To: mkars80@... <mailto:mkars80@...>
> Subject: [mkars80] Working with the torrids
>
>
> I am currently putting together a MKARS80 and would like to know any hints for removing the enamel. I tried a flame from a lighter and then light sanding but it doesn’t seem the best way. Can someone share from their experience and also hints on mounting the toroids. The # 38 wire is not kind to older eyes or much fussing with. 73 Mike KF6KXG
>
>
> ------------------------------------
> Posted by: Mike Lichtman <mlicht103@... <mailto:mlicht103@...>>
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> Yahoo Groups Links
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3163. Re: [mkars80] Working with the torrids

Yahoo group: mkars80
Date: 2017-03-04 22:11:17 UTC
From: Steve
Topic: 3157 Message: 3163

Unfortunately it needs to be small to fit the ferrites.
Steve

Sent from my Sony Xperia™ smartphone

---- Mike Lichtman mlicht103@aol.com [mkars80] wrote ----

>Thanks Steve. This is the smallest wire I have used. 73 Mike
>> On Mar 4, 2017, at 12:05 AM, Steve Drury steve@radio-kits.co.uk [mkars80] <mkars80@yahoogroups.co.uk> wrote:
>>
>>
>> Best way is to use a very hot soldering iron - I melt a blob of solder on to a heat resitant surface and while the iron is still heating the blob pass the end of the wire into it. For heavy gauge (22 SWG) I crush it in the serated part of some universal pliers (the gripping part) first.
>> Steve G6ALU
>>
>>
>>
>>
>> Sent from Samsung tablet
>>
>>
>>
>> -------- Original message --------
>> From: "Mike Lichtman mlicht103@aol.com <mailto:mlicht103@aol.com> [mkars80]" <mkars80@yahoogroups.co.uk <mailto:mkars80@yahoogroups.co.uk>>
>> Date: 04/03/2017 03:06 (GMT+00:00)
>> To: mkars80@yahoogroups.co.uk <mailto:mkars80@yahoogroups.co.uk>
>> Subject: [mkars80] Working with the torrids
>>
>>
>> I am currently putting together a MKARS80 and would like to know any hints for removing the enamel. I tried a flame from a lighter and then light sanding but it doesn’t seem the best way. Can someone share from their experience and also hints on mounting the toroids. The # 38 wire is not kind to older eyes or much fussing with. 73 Mike KF6KXG
>>
>>
>> ------------------------------------
>> Posted by: Mike Lichtman <mlicht103@aol.com <mailto:mlicht103@aol.com>>
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>> Yahoo Groups Links
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3164. Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 04:08:59 UTC
From: ohwenzelph@...
Topic: 3157 Message: 3164

I use a "razor blade", (not found in razors anymore, you have to go to a hardware store) and scrape the wire. What is better is to find some "heat strippable" wire that is easily stripped with a blob of hot solder. TIN the wire ends before you try and mount the transformers on the board. I didn't and tired to tin as i soldered it and it was very bad for the pcb traces. Near disaster. Likewise don't solder the red led or the IRF510 to the board 'till you have figured out the mounting in the case. trying to unsolder and adjust the positioning is not good. solder them in the perfect position and then test.

3165. Re: [mkars80] Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 04:32:44 UTC
From: Mike Lichtman
Topic: 3157 Message: 3165

Thank you for the advice. It is always good to talk to someone who has done the project before. 73 Mike
> On Mar 4, 2017, at 8:08 PM, ohwenzelph@yahoo.com [mkars80] <mkars80@...> wrote:
>
> I use a "razor blade", (not found in razors anymore, you have to go to a hardware store) and scrape the wire. What is better is to find some "heat strippable" wire that is easily stripped with a blob of hot solder. TIN the wire ends before you try and mount the transformers on the board. I didn't and tired to tin as i soldered it and it was very bad for the pcb traces. Near disaster. Likewise don't solder the red led or the IRF510 to the board 'till you have figured out the mounting in the case. trying to unsolder and adjust the positioning is not good. solder them in the perfect position and then test.
>
>

3166. Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 05:09:42 UTC
From: n7eku@...
Topic: 3157 Message: 3166

Hi,

If I use a razor blade, I often use the cut edges of it instead of the blade part. The sharp 90 degree corner on the cut edges works like a cabinet scraper, so it scrapes off the insulation better with less risk of cutting the thin wire. This works with many types of blades like Exacto and utility knife blades etc. -- they all have sharp edges where the blades were cut out of the steel sheets. I use a rubber mat underneath too, so that the wire can sink in. This helps prevent damage for when you accidentally press too hard.

When mounting the toroids, be careful how far you pull the wire ends through. Sometimes you end up pulling all the tinned end through the hole and you end up with having un-tinned wire again!

73,

Mark.

3167. Re: [mkars80] Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 06:12:26 UTC
From: Mike Lichtman
Topic: 3157 Message: 3167

Thanks for the hint, Mark. 73 Mike
> On Mar 4, 2017, at 9:09 PM, n7eku@qsl.net [mkars80] <mkars80@...> wrote:
>
> Hi,
>
> If I use a razor blade, I often use the cut edges of it instead of the blade part. The sharp 90 degree corner on the cut edges works like a cabinet scraper, so it scrapes off the insulation better with less risk of cutting the thin wire. This works with many types of blades like Exacto and utility knife blades etc. -- they all have sharp edges where the blades were cut out of the steel sheets. I use a rubber mat underneath too, so that the wire can sink in. This helps prevent damage for when you accidentally press too hard.
>
> When mounting the toroids, be careful how far you pull the wire ends through. Sometimes you end up pulling all the tinned end through the hole and you end up with having un-tinned wire again!
>
> 73,
>
>
> Mark.
>
>

3168. Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 06:20:33 UTC
From: ohwenzelph@...
Topic: 3157 Message: 3168

http://www.kitsandparts.com/magnetwire.php http://www.kitsandparts.com/magnetwire.php

diz has heat stripable 36g, not sure how it compares with your 38

3169. Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 07:08:05 UTC
From: ohwenzelph@...
Topic: 3157 Message: 3169

Also, I glued down and nail polished L5. Now I wish I had waited until after checking the tuning range.

3170. Re: [mkars80] Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 07:30:06 UTC
From: Steve Drury
Topic: 3157 Message: 3170

The wire in MKARS80 kits is heat stripable....you need an iron temperature greater than 390 degrees centigrade.
Steve G6ALU

Sent from Samsung tablet

-------- Original message --------
From: "ohwenzelph@yahoo.com [mkars80]" <mkars80@yahoogroups.co.uk>
Date: 05/03/2017 06:20 (GMT+00:00)
To: mkars80@yahoogroups.co.uk
Subject: [mkars80] Re:: Working with the torrids

http://www.kitsandparts.com/magnetwire.php

diz has heat stripable 36g, not sure how it compares with your 38

3171. Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 12:30:29 UTC
From: ohwenzelph@...
Topic: 3157 Message: 3171

One more thing, the lateral leads on the polivaricon are too wide to fit thru their pcb holes. I bent those leads back and used pieces of component leads like what is done for VR1 and VR2. I think it would be better to find a way to cut them a little narrower so they fit the holes.

3172. Re: [mkars80] Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 12:52:46 UTC
From: Ken Greenough
Topic: 3157 Message: 3172

I often find the holes on PCBs [all projects] are smaller
than the leads on trimmers, polycaps etc' . I usually solve
this by filing the leads down to fit but using wire spills is
also a good method providing they can take the torque
required to hold a trim cap whilst it's being adjusted.
73 Ken g8beq

3173. RE: [mkars80] Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 13:02:04 UTC
From: Steve
Topic: 3157 Message: 3173

Unfortunately rhe manufacturer has mixed batches of capacitors, I trim the with of the leads with side cutters but bending them up and connecting with tinned copper wire seems a good solution.
Steve G6ALU

Sent from my Sony Xperia™ smartphone

---- ohwenzelph@yahoo.com [mkars80] wrote ----

>One more thing, the lateral leads on the polivaricon are too wide to fit thru their pcb holes. I bent those leads back and used pieces of component leads like what is done for VR1 and VR2. I think it would be better to find a way to cut them a little narrower so they fit the holes.

3174. Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-05 15:27:36 UTC
From: n7eku@...
Topic: 3157 Message: 3174

Hi,

For trimmers with too wide flat leads, I often squeeze them with a long-nose pliers so that they fold in half long ways. Start at the end with the edges in the grooves of the pliers. Sometimes it helps to push in the middle a bit with a small screwdriver.

Also, sometimes you can just widen the hole a bit in the direction needed by using a small screwdriver or a sharply pointed knife blade. Widen one side, then flip the blade 180 degrees and widen the other side. Then flip the board and do the same coming from the other side.

73,

Mark.

3175. Re: [mkars80] Re:: Working with the torrids

Yahoo group: mkars80
Date: 2017-03-09 02:53:03 UTC
From: Mike Lichtman
Topic: 3157 Message: 3175

Mark,
Thank you for your suggestion. 73 Mike KF6KXG
> On Mar 5, 2017, at 7:27 AM, n7eku@... [mkars80] <mkars80@...> wrote:
>
> Hi,
>
> For trimmers with too wide flat leads, I often squeeze them with a long-nose pliers so that they fold in half long ways. Start at the end with the edges in the grooves of the pliers. Sometimes it helps to push in the middle a bit with a small screwdriver.
>
> Also, sometimes you can just widen the hole a bit in the direction needed by using a small screwdriver or a sharply pointed knife blade. Widen one side, then flip the blade 180 degrees and widen the other side. Then flip the board and do the same coming from the other side.
>
> 73,
>
>
> Mark.
>
>

3176. Re: : Working with the torrids

Yahoo group: mkars80
Date: 2017-03-09 02:54:59 UTC
From: Mike Lichtman
Topic: 3157 Message: 3176

Thank you to everyone who responded. I appreciate the hints. 73 Mike KF6KXG